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# QUARTERLY BULLETIN

OF THE

INTERNATIONAL ASSOCIATION OF AGRICULTURAL
LIBRARIANS & DOCUMENTALISTS

Vol. IV

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No. 2



# QUARTERLY BULLETIN OF THE INTERNATIONAL ASSOCIATION OF AGRICULTURAL LIBRARIANS & DOCUMENTALISTS

BULLETIN TRIMESTRIEL DE L'ASSOCIATION INTERNATIONALE DES BIBLIOTHECAIRES ET DOCUMENTALISTES AGRICOLES

VIERTELJAHRSSCHRIFT
DER INTERNATIONALEN GESELLSCHAFT
LANDWIRTSCHAFTLICHER BIBLIOTHEKARE &
DOKUMENTALISTEN

BOLETIN TRIMESTRAL

DE LA

ASOCIACION INTERNACIONAL

DE BIBLIOTECARIOS Y DOCUMENTALISTAS AGRICOLAS

Editor Rédacteur-en-chef Schriftleiter Director

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# THE LIBRARY OF THE DEPARTMENT OF AGRICULTURE, FEDERATION OF MALAYA

BY

P. J. VERGHESE, Kuala Lumpur

History

The Department of Agriculture for the Federated Malay States comprising the four states, Negri Sembilan, Selangor Pahang and Perak, was instituted in 1905. Prior to this the services of the Gardens Department, Straits Settlements, at Singapore, were invoked for the purpose of assisting agriculturists in the Federated Malay States. The official appointment of the first Director of Agriculture and Government Botanist, FMS, was made in England and one of the tasks of this officer before leaving for Malaya was to purchase such books as were essential to the work of the Department. One of the duties of this Departement was to act as a bureau of information on agricultural matters. In 1907, a suitable place was provided for a small library and the Government Mycologist began arranging and cataloguing the books and pamphlets in the library.

Towards the close of the year 1919 the agricultural work in the Straits Settlements, comprising Singapore, Malacca and Penang, was placed in charge of the Department of Agriculture SS and FMS. This Department acted in an advisory capacity to the Unfederated Malay States, comprising Johore, Trengganu, Kelantan, Kedah and Perlis. By the formation of the Malayan Union after World War II and the subsequent institution of the Federation of Malaya, the Department of Agriculture became the administratieve centre for all matters connected with agriculture in Malaya, and is now known as the Department

ment of Agriculture, Federation of Malaya.

Staff

The first full-time librarian and translator was appointed in 1925 and with the help of two clerks he carried out the duties of the post till he retired in 1932. As a measure of economy no librarian was appointed till 1939 when a lady doctor, a refugee, was appointed on a much lower salary than the one offered to her predecessor. On the resignation of this lady in 1941, the present librarian was transferred from the King Edward VII College of Medicine, Singapore, where he

had held the post of Librarian for about eleven years. One of the clerks was transferred and this vacancy has not yet been filled. The present staff consists of the Librarian, one clerk and two attendants.

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The total number of bound volumes in book form is estimated to be about 40,000. There are a considerable number of unbound periodicals and serial publications, mostly kept in metal boxes. The majority of the publications on rubber were transferred to the Rubber Research Institute of Malaya which was established in 1926. The School (now the College) of Agriculture, Malaya, was established in 1931 and a considerable number of publications transferred to this institution was lost during the Japanese occupation. Practically everything in the experimental stations and divisions of the Department was also lost during this period.

The library receives about 520 periodicals and serial publications by subscription and exchange. There are about 1,340 sets of periodicals; a number of these were discontinued in 1932 and 1933 owing to financial difficulties and have never been replaced. There are about 40 volumes of out-of-print periodicals on microfilm. Though the library does not possess a microfilm reader, officers of the Department have access to readers in other Government institutions.

A complete set of the publications of the Department is maintained, as well as those of other institutions, including the Rubber Research Institute, the Forest Research Institute, the Fisheries Department and the Vetinary Department. As far as possible, complete sets of publications of a number of foreign institutions are filed. These include the Bureau of Agriculture, London, the Ministry of Agriculture and Fisheries, London, the United States Department of Agriculture, the Food and Agricultural Organisation and its forerunner, the International Institute of Agriculture. A considerable number of agricultural publications from the British Colonies and Dominions and other foreign agricultural institutions are also received.

Methods of Acquisition

A constant watch is kept for new publications and organisations liable to issue publications in the form of periodicals and reports. The publishers' announcements are useful sources of advance information and reviews in periodicals serve as reminders. Review copies sent to the Publications Officer of the Department of Agriculture are sent to the Librarian. The main sources of acquisition are through purchase and exchange. The Department offers the Malayan Agricultural Journal, Bulletin, Leaflets and Reports. Publications are often donated to the library by officers of the Department when they retire. The Publications Committee of the Department decides

whether or not to include new publications either by purchase or exchange.

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The Departmental library in Kuala Lumpur is the central agricultural library for the Federation of Malaya, with branches in eleven States, three Federal Experimental Stations, the College of Agriculture and two Agricultural Schools. In addition, each state has its own funds for the purchase of essential books and has a library of its own managed by its State Agricultural Officer. Expenditure for the Experimental Stations is met from Federal Department of Agriculture funds. The College and the Schools have their own funds. In addition to the above there are divisional libraries, ten in number, situated in the offices and laboratories of the Headquarters in Kuala Lumpur. A master catalogue of all these libraries is kept in the main library. The Librarian at the main library advises all these centres on matters connected with library administration and occasional visits are paid by him to these centres. The majority of periodicals received at the Main library are circulated to all these centres. The Forest Research Institute at Kepong is also on the circulation list for certain periodicals.

All periodicals received are scrutinised by the Librarian on receipt and any particularly outstanding item is brought to the attention of any member of staff known to be working on a related problem. Announcements of the publication of new books or periodicals on some specific topic known to be of interest to a particular officer are

brought to his notice.

The Librarian issues a Library Bulletin giving information on accessions, publications on order and other matters of interest. This is the usual method of dissemination of information to all officers and

librarians in the system.

No abstracting is undertaken by the library staff as this is well covered by the services and publications of the Commonwealth Agricultural Bureaux, the National Agricultural Advisory Service Quarterly Review and other abstracting journals.

Availability

The library is open, without formality, to any one, for reference purposes. Most of the material can be borrowed by other libraries provided it is not in demand by the staff of the Department. The library answers many queries, both written and verbal, and supplies reading lists and bibliographies to readers. Outside enquiries for publications on agricultural matters are usually dealt with in the library, but enquiries of a more technical nature are passed on to the divisions.

Translations of articles in foreign languages are occasionally done outside the Department on payment. Translations into Malay and Chinese are done by the Departmental translators. Photocopying is done internally but there is no copying service normally available to non-government libraries.

The library follows the normal Departmental office hours, but access to the library is possible to senior members of the staff at any time. A separate Issue Register is kept for items borrowed in the

absence of the library staff.

# Classification and Cataloguing

The following catalogues of the resources of the library are available:

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1. Author catalogue of books and pamphlets in card form.

Subject catalogue of books and pamphlets in card form.
 Classified subject catalogue of books and pamphlets in loose-leaf

4. List of periodicals and serial publications in loose-leaf form.

Title catalogue of periodicals and serial publications on visible indexes.

There is no printed catalogue of the library. Steps are being taken to issue a catalogue of periodical holdings.

# Classification

Books and pamphlets are classified according to a system formulated by the present Librarian. This system is a combination of the systems used in the Department of Agriculture, New South Wales, Australia, and the International Institute of Agriculture, Rome. Certain sections have been adapted from the Universal Decimal Classification. The letters of the English alphabet are used for the notation. The principle underlying this scheme is that of specific entry, that is, one place for each topic under which is grouped all its aspects. The main outline of this scheme is applied generally, but those classes which are fully represented in the library, are worked out in detail.

Periodicals and serial publications are not classified, but are arranged on the shelves in numerical order, each title being given a number (subject index cards for serial publications are prepared and incorporated into the subject index cards for books, reprints, and pamphlets). In certain instances a combination of letters and numbers is used to bring together titles for specific reasons. The location of these can be determined by the use of the visible indexes. Unbound periodicals are kept with bound ones, and the latest issue of each current periodicals is displayed on racks provided for this purpose.

# INDEX TO THE WORLD'S BEEKEEPING LITERATURE

JULIA S. MERRILL, Beltsville, Maryland

More than 30 years ago the Division of Bee Culture of the Bureau of Entomology of the United States Department of Agriculture began a card index of selected references from the world's literature on apiculture and closely related subjects. This Beekeeping Bibliography, as it is familiarly known, was maintained by the Bee Culture Library of the Bureau until 1942, when it became a part of the Department of Agriculture Library. It is known as the Apiculture Unit of the Reference Section. The Beekeeping Bibliography is now maintained as a joint project of the Unit library and the Bee Culture Section of the Field Crops Insects and Bee Culture Research Branch, Entomology Research Division, at Beltsville, Maryland.

The library has been housed with the apicultural research workers since the inception of the Beekeeping Bibliography. We believe this close relationship has resulted in a more complete understanding of the needs, desires, and problems of each group than would have been possible if each operated separately. The library staff is kept informed of research projects and of the varying interests of the apiculturists, bacteriologists, entomologists, and other scientists, and has thus been able to procure material of substantial value and to keep it

pertinent to the needs of the workers.

The material reviewed and included in this index encompasses many fields. Beekeeping covers a much broader area than simply honey production. The bee business is an essential cog in the agricultural economy of the United States, and there are now about 425,000 persons keeping bees in this country. The value of bees for pollination is 20 times as great as for the annual return of honey, which was 214,524,000 pounds in 1956. In addition to their value to agriculture, bees have provided a source of pleasure and stimulation to the

hobbyist, amateur, and back-lot beekeeper.

It is perhaps not generally realized that the use of insecticides has contributed to the annihilation of many insect pollinators. In earlier years agriculture depended on these insects for seed crops such as alfalfa, clover, and many of the vegetables, as well as for production of most of the deciduous fruits, such as apples and pears. Today pollination is almost completely dependent on the honey bee for ade-

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quate production of such crops. There is great interest in the insecticide problem here and abroad, and many of the references added to

the index relate to this subject.

At one time there were about 135 periodicals devoted exclusively to bee culture. Now that figure has dropped to about 70. Most of the journals are published by beekeeper's associations, although in the United States the two leading periodicals are house organs of bee supply firms. In France and Germany, for example, there are numerous associations and many journals - and so it is throughout Europe. The countries of the Far East are also represented in the bee literature received by the Apiculture Unit.

Medical, biological, agricultural, and other non-beekeeping journals; abstract and review publications; and the Department of Agriculture Library's monthly *Bibliography of Agriculture* are received regularly, and selected articles are added to the Beekeeping Bibliography. Articles are not indexed from abstract or review journals

until all efforts to obtain the original have failed.

There are approximately 80,000 references in the index, and two files are maintained, author and subject. Bibliography cards are prepared once a month and are supplied to the field laboratories of the Bee Culture Section, located in various parts of the country. The cards used are large (5 x 8 inches) to allow for the inclusion of a summary or short translation when desired. French, German, Italian, and Spanish articles are translated by staff members, and Slavic translations are obtained through other offices. Unfortunately, there is no source for Oriental translations at present.

In addition to the summaries, a separate file of complete translations is maintained in conjunction with the card index. The Apiculture Unit has an agreement to exchange translations with the Bee Research Association in London, England; the Department of Agriculture of Ottawa, Canada; and the Ontario Agricultural College at Guelph. The Bee Research Association is an international organization and the translations sent there are available to scientific person-

nel throughout the world.

The classification scheme used in filing the references in the Beekeeping Bibliography was evolved by Bee Culture personnel and has been continued in the same pattern with a few refinements. It consists of 28 major headings with over 200 subclasses. The system is, of course, antiquated and needs complete revision, but this will necessitate a great deal of manual labor. We hope that some day enough help will be available to give it the attention it needs.

# THEORETICAL PROBLEMS IN AGRICULTURAL DOCUMENTATION

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E. PATAKY, Budapest

(Summary of a paper which appeared as Proceedings of the Hungarian National Agricultural Library and Centre for Documentation, 1 (1958).)

Theoretical questions of agricultural documentation are treated rather sporadically in special literature. Therefore the author found hardly any support for his work in the special literature available, and he lacked also the direct observation given by study-tours abroad. His argument is based upon observations made over eight years in the National Agricultural Library and Centre for Documentation, Budapest, as well as on theoretical literature of documentation in general.

1.

The author starts from the classification of sciences. In the course of development the clear-cut lines delimiting the sciences disappeared. In the same way the agricultural sciences do not form an individed closed unit, but a complex network of relations both within and without the field of agricultural science.

These relations are four in kind. The most frequent occur inside the field of agricutural sciences (internal relations No 1), such as the keeping of poultry in batteries or on deep litter. Less frequent, but still fairly numerous, are the relations still formed inside the field of agricultural sciences, though outside the respective special branch of agricultural science (internal relations No 2), e.g. farm management in horticulture. The other relations fall outside the domain of agricultural sciences. Among these the relations having reference to biology (external relations No 1) are dominant, except agricultural economy, which is mainly related to political economy, and agricultural engineering related to mechanics. The relations having reference to other sciences outside the field of agricultural sciences (e.g. mathematics) are the external relations No 2.

Agricultural research is the analysis of these relations. In searching for unknown relations documentation is an indispensable means of information, of rationalization in scientific work. In fact agricultural documentation has to consider the concrete trends to be followed in recording recent scientific advances, that is it has to keep abreast of the intensity as well as of the changes taking place in the above relations. agri

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In this activity documentation is somewhat aided by the Bradford law of scattering. Internal relations No 1 may be ranged in the Bradford nucleus of periodicals devoted to the subject, the internal relation No 2 into zone No 1, etc. A further aid is the institutional collaboration of scientific agricultural bodies. A third mainstay would be the compilation from time to time in one or other branch of agricultural science of an analysis of the quantitatively and qualitatively weighted relation numbers of the above relations and the establishment of a weighting trend and positive and negative correlations.

2

Concerning the reasons for the differences between industrial and agricultural documentation the author points to the greater general value of achievements in the technical sciences. In agriculture there are lively discussions already on its basic science, biology. And besides, on account of variations in natural and other conditions, agricultural documentation serves primarily the country's agricultural experimentation and not its practical production. In agricultural documentation the need for selection as fitted to the conditions of the country manifests itself more acutely. Further, industrial production and, in consequence, technical and technical documentation are more cleary defined. In agriculture - apart from America and the colonies where monocultural production is being followed - research activity is concentrated on mixed farming which makes agricultural documentation more complex. Furthermore, fixed expenditures being relatively higher in agriculture, documentation is unable to respond promptly to scientific achievements. Consequently, promptness is not a primary requirement of agricultural documentary services. All the same, it ought to be considered that the restrictions imposed by the climatic, soil, etc., conditions are growing less and the chemical, physical, mechanical attainments of a more general value compete more and more with biological factors. Proportionately, the applicability of foreign achievements as interpreted by agricultural documentation is enhanced.

3.

Next, the necessity for agricultural documentation is discussed. Documentation is compared with other methods of scientific cognition and the objections raised against it are analysed. The author touches on the provincialist attitude threatening agriculture and

agricultural sciences. Reference is made to the accelerated rate of development in agricultural sciences in the last few decades, pointing out that documentation is the only key permitting access to this rapidly accumulating store of knowledge. It is for small countries especially to take over the achievements attained in the basic sciences of agriculture and to make these part of their national resources.

4.

Agricultural documentation has to meet three kinds of require-

ments: material, functional and institutional.

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The material requirement (to the question 'what') refers to the content of the material. In this connection the problem of selection is analysed in detail. Scientific agricultural achievements do not always harmonize with the natural endowments or with the research plans of a certain country. The nearer the scientific information to the pure and to the basic sciences, the larger the coincidence.

The functional requirement agricultural documentation has to cope with (the question 'how') consists essentially in dissemination and a differential information retrieval. Concerning the function of dissemination, the author finds it more useful for smaller countries to publish an abstracting periodical containing informative abstracts than a larger number of indicative abstracts. The successful functioning of information retrieval is subject to the fulfilment of six

conditions.

As regards the institutional tasks (the question 'who') the requirements to be met by the documentalist in scanning literature are set forth. In larger countries the burdens incident to these requirements are shared with the agricultural research bodies. In smaller countries, however, most of the responsibility of agricultural documentation

agricultural documentation.

5

devolves on the documentalists working at the central agency of

The next part discusses whom agricultural documentation is to serve. The functional level of documentation most be the same as the level of the original documents, most of which are highly scientific. Consequently, central agricultural documentation has in the first place to serve agricultural experimentation, higher education, high operative management. Apart from these, in the dissemination documentation it has to serve the practical experts working in the field of production and open to scientific advance.

6.

As to the question of centrally organized documentation the author thinks that - as compared with industrial documentation - agricul-

tural documentation is compelled to leave out of consideration the lowest level, that is the producing unit - in smaller countries even the second level, the agricultural research institute. In other words it is advisable for smaller countries to organize agricultural documentation centrally, that is, on a national scale, and in the meantime to work for decentralization to the level of agricultural research institutes, thus building up a documentary network.

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In discussing the *methods of documentation*, such as prompt information through abstracts on individual sheets, abstracting journals, subject reviews on progress, etc., attention is paid to the specific features characteristic of agricultural documentation. Agricultural documentation services do not have to be as prompt in keeping track of publications as industrial documentation. In the abstracting journals of smaller countries selection should be performed more thoroughly despite limitations in the scientific apparatus.

As regards information, storage problems of the documentary material are dealt with, as well as classification, the question of special

bibliographies and subject reviews on progress.

Concerning the problem of translation, reference is made to considerable changes in socialist countries as regards the order of importance of languages (deviation No 1). The number of languages used in agricultural research in smaller countries is increasing considerably (deviation No 2). In consequence, on account of the extensive translation work the process of documentation is prolonged (deviation No 3) and becomes more expensive (deviation No 4). Reference is made also to the language problems of documentary staffs as well as to the tasks to be solved in this field by UNESCO.

Q

As to efficiency in agricultural documentation, the author analyses the conditions that are needed for turning universal scientific agricultural literature into knowledge of national value. Theoretical discussion is followed by concrete proposals for examining in how many cases and with what effectiveness intellectual work has benefited another country.

9

A comparison between agricultural documentation in capitalist and socialist countries suggests that the latter seems better established, and, instead of serving capitalist agricultural enterprise is aimed at promoting the agricultural progress of the whole country. Its drawback is that the efficiency and success of documentary activity are often lost sight of.

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and led, lat aware A supplement contains as Part 1 a survey of documentation bodies in the USSR, Czechoslovakia, Poland, some Western and international organizations (International Institute of Agriculture, FAO, OEEC), Great Britain, Western Germany, the Netherlands, as also of the activities of the International Association of Agricultural Librarians and Documentalists (IAALD).

Part 2 of the supplement reviews the history of Hungarian agricultural documentation by analysing the motives of its development. Systematic doccumentary work in the field of agriculture had its beginning in the interpretation of Soviet scientific literature. The centre of interest being turned to translations made in large quantities, documentation in the narrower sense was relegated to the background. In the next stage of evolution agricultural documentation so far working independently was co-ordinated with the National Library of Agriculture, the library background resulting in a wide abstracting service. Unfortunately, concentration on quantity absorbed the energy of the documentary service. Summer 1957 brought further development in the life of the National Library of Agriculture through the reorganisation of the reproduction service, the co-ordination of the dissemination and retrieval of documentation, the development of subject reviews on progress and the charting of the course of future development.

The present organization of the Library's function and publica-

tions are then discussed, supporter by detailed statistics.

Part 3 of the supplement contains nine points laid down by the author for the further development of Hungarian agricultural documentation and for better international co-operation in agricultural documentation.

# COMMUNICATIONS TO MEMBERS

# ANNUAL REPORT OF THE INTERNATIONAL ASSOCIATION OF AGRICULTURAL LIBRARIANS AND DOCUMENTALISTS (IAALD)

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For the year ending September 1958

Since the last report the membership of the Association rose to 340, of which less than one half are individual members, while the

rest are institutions, mostly libraries.

The programme of work actually in progress includes such items as a world-wide Directory of agricultural libraries and documentation centres, which is prepared by D. H. Boalch, Librarian of the Rothamsted Experimental Station at Harpenden, Herts, England. More than 3,100 questionnaires have been sent out and are now being returned to the editor at an approximate rate of 20 per cent. It is hoped to complete the text of the Directory and to publish it in 1959. The John Deere Foundation has provided a grant to enable IAALD to publish this Directory.

The Classification Committee reports that the revision of the 'Système de Classification des Sciences Agricoles', published originally by the former International Institute of Agriculture (2d edition 1942), has been started by S. v. Frauendorfer. Important suggestions as to improvements and additions have been received by several members of IAALD. The manuscript of the revised text will be

ready by Spring 1959.

With the financial aid of the Council on Economic and Cultural Affairs, Inc., New York, it was possible to publish a sample copy of a new journal to be issued by IAALD in close co-operation with the International Conference of Agricultural Economists. In the field of agricultural economics and sociology no international abstracting service is in existence, a gap which is to be filled, beginning with 1959, by World Agricultural Economics Abstracts, a quarterly to be published under the general editorship of Sigmund v. Frauendorfer. The Quarterly Bulletin of IAALD is published regularly under the editorship of D. H. Boalch and is about to complete its third annual volume.

Two important bibliographical publications have been published

by members of the association, namely:

Blanchard, J. R. and Ostvold, H. Literature of agricultural research. Berkeley and Los Angeles, 1958.

Lauche, R. Internationales Handbuch der Bibliographien des Landbaues. München, 1957.

The President (F. E. Mohrhardt), the Vice President (S. v. Frauendorfer), and the Treasurer (Th. P. Loosjes) of IAALD represented IAALD at the International Conference of scientific Information, Washington, D. C., November 1958.

# STANDING COMMITTEE ON AGRICULTURAL DOCUMENTATION (WEST GERMANY)

(reported by W. Gleisberg)

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Die auf Einladung des Land- und Forstwirtschaftlichen Forschungsrates zur konstituierenden und ersten Arbeitssitzung vom 18./19.XII.58 in Reinbek b. Hamburg versammelten Dokumentationsfachbearbeiter der Ernährungs-, Landwirtschafts-, Forst- und Holzwissenschaft beschliessen die Begründung eines ständigen Klassifikationsausschusses als beratenden Gremiums der Dokumentationskommission des Land- und Forstwirtschaftlichen Forschungsrates. Arbeitsziel des Ausschusses in Verbindung mit den Dokumentationssachbearbeitern des Land- und Forstwirtschaftlichen Forschungsrates ist die Koordinierung aller Klassifikationsbestrebungen auf den Gebieten der Ernährungs- und Landwirtschafts-, Forst- und Holzwissenschaft. In diesem Sinne begrüsst der neugebildete Klassifikationsausschuss eine enge Verbindung mit dem Klassifikationsausschuss des Deutschen Normenausschusses durch Einbeziehung in eine neu zu bildende Arbeitsgruppe für Ernährungs- und Landwirtschaft, Forstund Holzwirtschaft im Klassifikationsausschuss des Deutschen Normenausschusses.

# TWO NEW JOURNALS

AGRICULTURAL AVIATION

Quarterly periodical of the European Agricultural Aviation Centre.

During the last decade the use of aircraft in agriculture and forestry has increased considerably throughout the world. The airplane has been shewn to be a powerful weapon in the struggle of man against food shortage, a food shortage caused by the damage done by insects,

diseases and weeds, but which may also have been brought about through exhaustion of the soil when it is insufficiently fertilized.

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The new periodical 'Agricultural Aviation' is a forum for all those who - anywhere in the world - are in some way concerned with the use of aircraft in agriculture and forestry. It aims to keep them posted on any new technical developments in this field: new types of aircraft with the application equipment going with them, agricultural chemicals and fertilizers. Its columns are open to research workers who want to publish articles on their work with aircraft, which are intended for a highly specialized group of readers who may be expected to be interested in such articles.

Although 'Agricultural Aviation' is published by the European Agricultural Aviation Centre, the contents are by no means limited to agricultural aviation in Europe. On the contrary, as a source of up to date information on a world-wide scale this periodical aims to be the voice of ever developing agricultural aviation. For this reason it is published in two editions: in English and in French.

The first issue, in a very attractive make-up, contains articles on aerial potato spraying in England and forest spraying in Germany, together with descriptions of new types of agricultural aircraft and equipment, and extracts from recent agricultural aviation literature.

Subscription rates per year:

Europe: United Kingdom £ 1.4.-, France frs 1700, Switzerland frs 13,60.

U.S.A. and Canada: \$ 3.50.

Elsewhere: the equivalent of U.S. \$ 3.50 or £ 1.8.-.

Editorial office and administration: 1e v. d. Boschstraat 4, The Hague, Netherlands.

#### ANIMAL PRODUCTION

The Journal of the British Society of Animal Production

The first issue of this new Journal is to be published early in March, 1959, and it will be published at least twice per year thereafter.

It is intended that the journal will provide an international medium for publishing original work having a direct bearing on the science and practice of animal production. Papers on genetics, husbandry, nutrition, physiology and the inter-relationship of animal and environment will be included. Because many far reaching deve-

lopments derive from work with small animals and work in the purely theoretical field, papers which deal with these will also be included. Reviews of important topics will be published and abstracts of papers read at meetings of the B.S.A.P. will provide a record of work in progress in Britain.

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methe nusmal The new journal is sponsored by the British Society of Animal Production and it supersedes the Proceedings of the Society. It is the success of the Proceedings over the past few years which has encouraged the Society to launch 'Animal Production' on a broader basis of content and with a greater frequency of publication.

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Orders for 'Animal Production' should be sent, and cheques or money orders made payable to: Oliver and Boyd, Ltd., Tweeddale Court, High Street, Edinburgh, Scotland.

### WORKING COMMITTEE REPORTS

No reports from any of the Working Committees have been received by the Editor for inclusion in this issue.

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# BIBLIOGRAPHICAL NEWS

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# New Agricultural Bibliographies

Compiled by Rudolf Lauche

(Braunschweig, Forschungsanstalt für Landwirtschaft)

With assistance from Mrs. Margaret Bryant, U.S. Dept. of Agriculture Library, and other members of I.A.A.L.D. (Arranged as supplement to 'Internationales Handbuch der Bibliographien des Landbaues')

#### Series 4

# 1. Agriculture, general

#### 1.11 Classification

Das System (des landwirtschaftlichen Zentralblattes). - Berlin: Akademieverlag 1958. 131 p. - Price 6,50 DM - Classification of the 4 parts of 'Landwirtschaftliches Zentralblatt': Agric. engineering - Agronomy, plant protection, horticulture - Livestock, bees and fisheries - Veter. science. To each part a subject index. (15b)

### 1.12 Documentation

Pataky, Ernö: A mezögazdasági dokumentáció elméleti kérdései [Theoretical problems of the agricultural documentation]. - Budapest: Országos mezögazdasági könyvtár 1958. 77 p. - With English summary (33a)

#### 1.13 Dictionaries

# Hungarian

Mezögazdásági lexikon [Agricultural dictionary] 2 vol. - Budapest: Mezögazdasági kiadó 1958. 712, 786 p. - In it: Szakirodalmi tájékoztato - A selected list of Hungarian and foreign books and periodidicals with 930 items. - Classified (39c)

#### Russian

Sel'skohozjajstvennaja enciklopedija. [Agric. encyclopedia.] 3. ed. 5 vol. - Moskva: Selhozgiz 1949/56. 3187 p. - Mostly single articles with ref. - Also forestry, fisheries, veterinary science, biographies. - With index of latin terms of plants and animals. (39b)

# 1.41 Greater regions

# **Tropics**

Tempany, Harold; D. H. Grist: An introduction to tropical agriculture. - London: Longmans Green 1958. 347 p. - Price 40 s - With 211 ref. (171b)

# 1.42 Countries

#### Austria

Feierliche Inauguration 1957/58 [= Annual report] - Wien: Hochschule für Bodenkultur 1957. 56 p. - In it: Publications 1955/57 - 344 ref. - Arranged by institutes. - Agriculture and forestry (403b)

# Bulgaria

Referativnij bjulleten bolgarskih naučnyh publikacij v oblasti sel'skogo i lesnogo hozjajstva [Publications on agriculture and forestry.] - Sofija: Akademija nauk [1] 1955, [2] 1956, [3] 1957 - Yearly - Abstr. - Classified - In Russian - Author index - Also vet.science (194A)

# Germany

Ergebnisse landwirtschaftlicher Forschung an der Justus Liebig-Hochschule Gießen. - Gießen 1956. 151 p. - 175 extracts from theses 1947/54 (266a)

#### Poland

Bogdanowicz, M.; J. Skolimowska: Bibliografia zawartości miesiecnika 'Nowe rolnictwo' 1952/55 [Cumulativ index to monthly journal 'New Agriculture'] - Kraków: Instytut Zootechniki 1956. 84 p. - 914 ref. on articles and abstracts - Classified - Author index (412b)

Bibliografia zawartości dwumiesiecnika 'Postepy nauk rolniczych' 1949/55 [Cumulativ index to bimonthly journal. 'Progress in agriculture'.] W. Jossé [et alii.] - Kraków: Instytut Zootechniki 1956. 84 p. - 788 ref. to articles and abstracts - Classified - Author index (412c)

Bibliografia zawartości czasopisma 'Roczniki nauk rolniczych' 1903-1955 [Cumulativ index to 'Annales of agriculture'] W. Jossé[et alii] - Kraków: Instytut Zootechniki 1956. 366 p. - 3362 ref. to articles and abstracts - Classified - Author and regional index (412d)

Sokolowski, Wacław: Bibliografia piśmiennictwa pracowników naukowych wydziału rolnego U.P. (1945-1950) i W.S.R. w Poznaniu

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ed. cles (1950-1958). [Publications of research workers on agricultural faculty (1945/50) and agricultural college (1950/58) Poznan] - In: Roczniki Wyzszej Szkoly Rolniczej w Poznaniu 1958. p. 245-259. - 192 ref. (412e)

#### United States

List of serials currently received in the Library of the U.S. Department of Agriculture. [4. ed.] Comp. by Elizabeth Gould Davis. - Washington: USDA 1958. 614 p. (Misc. Publ. 765) (493) [BA]

# 1.5 History

# Hungary

Agrártörténeti szemle. Historia rerum rusticarum. - Budapest: Bibliotheca centralis universitatis scientiarum agriculturae. 1.1957- . With current ref. on European agricultural history (553b)

#### Nordic countries

Wührer, Karl: Die agrargeschichtliche Forschung in Skandinavien seit 1945. - In: Zeitschrift für Agrargeschichte u. Agrarsoziologie 5.1957 p. 76-87, 198-220. - Review with 200 ref. (546a)

#### Russia

Zajončkovskij, Petr Andreevič: Provedenie v žisń krest'janskoj reformy 1861 g. [Agricultural reform in Russia 1861] - Moskva 1958. - With 300 ref. - Classified. (548c)

#### United States

Gray, Lewis Cecil: History of agriculture in the southern United States to 1860. 2 vol. - Washington: Carnegie Institution 1958 (reprint from 1933). 1086 p. (Publ. 430) - With 1900 ref. (555c)

# 1.6 Agricultural geography

#### USSR

Nikišov, Maksim Ivanovič: Sel'skohozjajstvennye karty i atlasy. [Agric. maps and atlases of USSR] - Moskva: Geodezizdat 1957. 184 p. - List of 607 Russian maps. - 87 ref. to Russian agr. geogr. (578b)

#### 1.7 Education

Summaries of studies in agricultural education; an annotated bibliography of studies in agricultural education with classified subject

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1.8 Air

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K ag se (7 index. Suppl. 11. - Washington: Off. of Education 1958. 86 p. (Voc. Div. Bull. 272) [BA] (582)

Abell, Louis Felix: Het meten van het effect van agrarische voorlichtingsmiddelen. [Measuring of effect of extension service] - In: Landbouwdocumentatie 13. 1957 No 7, 8 p. 225-234, 269-274. - Review with 38 ref. (587a)

# 1.8 Conservation of natural resources

# Air pollution

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The air pollution bibliography. vol. 1. Comp. Jack R. Gibson [et alii.] - Washington: Library of Congress 1957. 150 p. (606c)
Air and water pollution. The position in Europe and in the United States. - Paris: European Productivity Agency of OEEC. 1957. 218 p. (Project 136 and 145) - With 161 ref. on water, 187 on air. (606d)

# 2.23 Agricultural meteorology

#### Middle East

Reifenberg, A.: The struggle between the desert and the sown. Rise and fall of agriculture in the Levant. - Jerusalem: Publishing Dept. of the Jewish Agency 1955. 109 p. - Price 4,50 \$ - With 105 ref. (710a)

# 2.3 Chemistry

Edlbacher, Siegfried: Lehrbuch der physiologischen Chemie. 13. ed. Revised by Franz Leuthardt. - Berlin: De Gruyter 1957. 908 p. - Price 42 DM. - Bibl. p. 848-879. (748b)

#### Growth substances

The biological action of growth substances. - Cambridge: Univ. Press 1957. 344 p. (Symposia of the Society for experimental biology 11) - With 934 cit. at end of chapters. - Plant and animal (815d)

# Radiobiochemistry

Symposium on the effects of ionizing radiation on plants. Solon A. Gordon [et alii.] - In: Quarterly review of biology 32.1957. p. 1-56. - 5 reviews with 327 ref. (790h)

Klečkovskij, V. M.: The use of isotopes and nuclear radiations in agronomic research [in Russian] - In: Izvestija Timirjazevskoj sel'skohozjajstvennoj akademii 1957. No 3 p. 6-32 - With 119 ref. (790k)

#### Vitamin E

Annotated bibliography of vitamin E. Vol. 4. 1955/57. Comp. by David C. Herting (and others). - New York: National Vitamin Foundation 1958. 216 p. - Price 3 \$ - 1384 ref. - Classified - Author index (808)

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# 2.4 Biology

#### Poland

Skolimowska, J.: Bibliografia zawartości kwartalnika 'Rozprawy biologiczne z zakresu weterynarnej, rolnictwa i hodowli' 1923/38 [Cumulativ index of quarterly 'Biological reviews on vet. science, agronomy and livestock husbandry']. - Kraków: Instytut Zootechniki 1947. 45 p. - 357 ref. on articles and abstracts - Classified - Author index (829a)

#### Genetics

Sirks, Marius Jacob: General genetics. - The Hague: Nijhoff 1956. 628 p. - Price 35 hfl. - Translated from 5. Dutch ed. - 'The extensive bibliography is excellent' (836c)

# Microbiology

Manual of microbiological methods. - New York: MacGraw-Hill 1958. 315 p. - Price 5,50 \$ - With 420 ref. at end of chapt. (849a)

# Ultrasonics in biology

Obolensky, G.: Diverses actions des ultrasons en biologie. - In: Année biologique 33, 1957 Nr 11/12 p. 465-521. - With 267 ref. (851a)

# Zoology

Heidermanns, Curt: Grundzüge der Tierphysiologie. 2. Aufl. - Stuttgart: Fischer 1957. 427 p. - Price 48 DM - A textbook with 504 ref. (855a)

# 2.5 Botany

# Dictionary

Boros, Georg: Lexikon der Botanik. - Stuttgart: Ulmer 1958. 276 p. - Price 12 DM - With 5000 terms (864b)

#### Danmark

Hansen, Alfred: Dansk botanisk litteratur in 1954, 1955, 1956.

In: Botanisk Tidsskrift 53.1957 No 4 p. 383-429. - 1100 ref. - Alphab. [BA] (884a)

#### USSR

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Nekrasova, V. L.: Istorija izučenija dikorastučih syfevyh rastenij v SSR. [Historia investigationis plantarum usualium spontanearum florae USSR]. - Moskva: Akademija Nauk 1958. 275 p. - Price 15,25 rub. - With 800 ref. - Alphab. (887a)

# Plant ecology

Grieg-Smith, P.: Quantitative plant ecology. - New York: Academic Press 1957. 198 p. - Price 6 \$ - Also: London: Butterworth 30 s. - With 184 ref. (910c)

# Plant physiology

Thomas, Meirion: Plant physiology. 4. ed. - London: Churchill 1956. 962 p. - With 748 cit. (915c)

# Plant sociology

Braun-Blanquet, Josias; O. de Bolos: Les groupements vegetaux du bassin moyen de l'Ebre et leur dynamisme (Anales de la estacion experimental de Aula Dei. Zaragoza 5. 1957 Nr 1/. 266 p.) - With 142 ref. (927c)

Ponjatovskaja, V. M.: O metodike izučenija struktury rastitelnih soobčestv. [Methods of plant sociology] - In: Botaničeskij žurnal 43. 1958 Nr 4 p. 585-605. - With 112 Russian and 174 English and American ref. (927d)

#### Rhizobium

Nutman, P. S.: The influence of the legume in root-nodule symbiosis. - In: Biol. Rev. 31. 1956 p. 109-151. - Review with 271 ref. (931e)

#### 2.6 Plant breeding

Przeglad naukowej literatury z zakresu genetyki i hodowli roślin. [Abstracts on plant genetics and breeding] - Warszawa: Państwowe wydawnictwo rolnicze i leśne. 1. 1957-. - Quarterly - Internat. (942a)

#### 2.7. Nutrition

Drummond, J. C., A. Wilbraham: The Englishmans food. Five cen-

turies of English diet. Rev. ed. - London: Cape 1958. 482 p. - Price 36 s - Ref. in footnotes (986a)

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# 3.1 Soil and plant, general

### South Africa

Haylett, D. G.: Advances in crops and pastures in the Union of South Africa in the last twenty-five years. - In: Emp. J. exp. Agr. 26. 1958 Nr. 102 p. 169-182. - With 99 ref. (1030b)

# Undersowing

Charles, A. H.: The effect of undersowing on the cereal cover crop. - In: Field crop abstr. 11. 1958 Nr 4 p. 233-239. - Review with 47 ref. (1040a)

#### 3.2 Soil

Duchaufour, Philippe: Pedologie. Applications forestières et agricoles. - Nancy: École Nationale des Eaux et Forêts 1956. 310 p. - With 270 ref. - Classified (1061a)

#### Australia

Stephens, C. G.: A manual of Australian soils. 2. ed. - Melbourne: Comm. Scient. and Industr. Res. Org. 1956. 54 p. - With 200 ref. (1064a)

# Italy

Soils of Italy. - Harpenden: Comm. Bureau of Soils 1959 (Annot. Bibliogr. 138) - Price 12 s - 126 annot. - 1929/58 (1072a)

# Spain

Soils of Spain. - Harpenden: Comm. Bureau of Soils 1958. (Annot. Bibliogr. 136) - Price 4 s - 46 annot. - 1934/57 (1077a)

# South Asia

Soils of Pakistan, Turkey, Iran and Iraq. - Harpenden: Comm. Bureau of Soils 1958 (Annot. Bibliogr. 135) - Price 4 s - 49 annot. - 1921/58 (1078a)

# Tropics

Black tropical soils. - Harpenden: Comm. Bureau of Soils 1958. (Annot. Bibliogr. 153) - Price 10 s - 109 annot. - 1924/57 (1082a)

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Humus

Organic matter in tropical and subtropical soils. - Harpenden: Comm. Bureau of Soils 1958. (Annot. Bibliogr. 139) - Price 3 s - 31 annot. - 1937/58 (1182a)

Silica

Silica in soils and plant nutrition. - Harpenden: Comm. Bureau of Soils 1958. (Annot. Bibligr. 148) - Price 8 s - 83 annot. - 1937/57 (1186a)

Soil biology

Effects of living organisms on soil formation. - Harpenden: Comm. Bureau of Soils 1958. 36 p. (Annot. Bibliogr. 134) - Price 13 s - 137 annot. - 1940/58 (1115b)

Burges, Alan: Microorganisms in the soil. - London: Hutchinson 1958. 188 p. - Price 10 s 6 d - With 175 ref. (1110b)

Nilson, P. E.: Influence of crop on biological activities in soil. - In: Lantbruks Högsk. Ann. 23. 1957. p. 175-218. - With 100 ref. (1103a)

Gilman, Joseph Charles: A manual of soil fungi. 2. rev. ed. - Ames: Iowa State Coll. Pr. 1957. 450 p. - Price 7,50 \$ - With 245 ref. (1100)

Soil conditioners

Bibliography on effect of soil conditioners on soil-aggregat stability. - Harpenden: Bureau of Soils 1957. 18 p. (Annot. Bibliogr. 93) - Price 8 s - 90 annot. - 1954/57. (1206c)

Soil moisture

Schulze, Erich; P. Schulze-Gemen: Der Wasserhaushalt des Bodens im Dauerdüngungsversuch Dikopshof 1953/54. - In: Zeitschr. f. Acker- und Pflanzenbau 103. 195/. p. 22-58. - With 109 ref. - Germany only (1134a)

Bibliography on effect of soil moisture on soil structure. - Harpenden: Comm. Bureau of Soils 1958. 4 p. (Annot. Bibliogr. 143) - Price 2 s - 13 annot. (1134b)

Tillage

Bibliography on soil cultivation and equipment. - Harpenden:

Comm. Bureau of Soils 1957. 12 p. (Annot. Bibliogr. 97) - Price 5 s - 56 annot. - 1953/57 (1096a)

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Greacen, E. L.: Tillage and the control of soil fertility. - In: Soils and fertil. 21. 1958. Nr. 6 p. 339-343. - Review with 24 cit. (1096b)

# 3.3 Plant nutrition

#### Boron

Schropp, Wilhelm: Bor und Leguminosen. - In: Arbeiten und Berichte aus der süddeutschen Versuchs- und Forschungsanstalt f. Milchwirtschaft Weihenstephan 2. 1957. No 3/4 S. 83-186. - With 255 ref. (1241b)

#### Cobalt

Cobalt dressing in pastures. - Harpenden: Comm. Bureau of Soils 1958. (Annot. Bibliogr. 149) - Price 2 s - 28 annot. - 1944/57 (1256a)

# Ion uptake

Ion uptake by roots. - Harpenden: Comm. Bureau of Soils 1958. 11 p. (Annot. Bibliogr. 154) - Price 5 s - 27 annot. - 1933/57 (1251A2)

#### Manure

Bibliography on use of manure and urine on grassland. - Harpenden: Comm. Bureau of Soils 1958. 12 p. (Annot. Bibliogr. 131) - Price 6 s - 64 annot. - 1933/57 (1296b)

Manell, Eric: Försök med stallgödselns fördelning i växtföljden. [Distribution of farm yard manure in the rotation of crops] - Uppsala: Statens jordbrukförsök 1958. 41 p. (Meddelande 95) - With 350 ref. - Alphab. - Scandinavia (1296a)

# Nitrogen

Effects of continued use of ammonium sulphate on soils. - Harpenden: Comm. Bureau of Soils 1958. (Annot. Bibliogr. 156) - Price 2 s - 28 annot. - 1930/58 (1288a)

# Phosphorus

Phosphate fixation and availability (Suppl. to Nr. 3) - Harpenden: Comm. Bureau of Soils 1958. (Annot. Bibliogr. 147) - Price 9 s - 93 annot. - 1955/58 (1281a)

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Bibliography on (1) town refuse, (2) sewage sludge, (3) ashes as fertilizers. - Harpenden: Comm. Bureau of Soils 1958. 26 p. (Annot. Bibliogr. 112) - Price - 149 annot. - 1945/57 (1272c)

Babajanc, Ruben A.: Počvennaja mineralizacija gorodskih otbrosov i ih sel'skohozjajstvennoe ispol'zovanie. [Mineralization of town refuse and utilization in agriculture] - Leningrad: Medgiz 1958. 231 p. - With 175 ref. (1272d)

# 3.4 Field crops

#### Beets

Helm, J.:Versuch einer morphologisch-systematischen Gliederung der Art Beta vulgaris. - In: Züchter 27. 1957. Nr. 5 p. 203-222. - With 99 ref. (1537a)

#### Cereals

Phosphate nutrition of cereals. - Harpenden: Comm. Bureau of Soils 1958. (Annot. Bibliogr. 146) - Price 3 s - 34 annot. - 1943/58 (1399a)

#### Cotton

Brown, Harry B.; J. O. Ware: Cotton. 3. ed. - New York: McGraw-Hill 1958. 566 p. - Price 12 \$ - With 495 ref. at end of chapters - Breeding, growing, utilization (1327a)

#### Drug plants

Celayeta, Filomena D.: Obras sobre plantas medicinales. [Books on drug plants]. - In: Boletín bibliográfico agrícola 39. 1957 p. 61-67 - 122 ref. - Alphab. - Internat. (1415b)

#### Groundnut

Oram, P. A.: Recent developments in groundnut production, with special reference to Africa. - In: Field crop abstr. 11. 1958. Nr. 7, 2 p. 1-6, 75-150) - Review with 106 ref. (1369a)

#### Maize

Jánossy, Andor [et alii]: Magyar kukuricafajtak ès termesztésük. [Hungarian kinds of maize] - Budapest: Mezögazdasági kiadó 1957. 143 p. - With 110 ref. (1490b)

#### Millet

Scheibe, Arnold: Panicum- und Setariahirsen. - In: Handbuch der Pflanzen-Züchtung 2. ed. 2. vol. 1959 p. 532-564 - With 127 ref. - Breeding (1421a)

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#### **Potatoes**

Svensson, Birger: Matpotatisens kvalitet. [Quality of table potatoes] - Uppsala: Statens Jordbrukförsök 1958. 38 p. (Meddelande 94) - 3 reviews with 203 ref., in it: potato scab with 141 ref. (1469a)

#### Rice

Ramella, R.: El arroz en la bibliografia. - In: Arroz (Rosario) 4. 1958. No 46 p. 11-12 (1518a) [BA]

Iwaki, S.: Studies on the salt injury in rice plant. [In Japanese] - In: Men. Ehime Univ. 2. 1956. Nr. 1 p. 1-156 - With 228 ref. (1532a)

# Rubber plants

Bukštynov, A. D.: Guttonosy SSSR. [Kautschukpflanzen der USSR] - Moskva: Goslesbumizdat 1957. 197 p. - With 276 ref. on Evonymus verrucosus and Eucommia ulmoides (1482a)

# Sorghum

Martin, John H.: Sorghum and pearl millet. - In: Handbuch der Pflanzenzüchtung 2. ed. 2. vol. 1959 p. 565-587. - With 68 ref. - Breeding (1550a)

# Sugar beet

Harvey, P. N.: Sowing and thinning the sugar beet crop. - In: Field crop abstr. 11.1958 Nr. 3 p. 151-160. - Review with 170 ref. (1607b)

#### Sugar cane

Fertilizing irrigated sugar cane. - Harpenden: Comm. Bureau of Soils 1958 (Annot. Bibliogr. 150) - Price 5 s - 53 annot. - 1939/58 (1600a)

# Sunflower

Zimmermann, Hans-Georg: Die Sonnenblume. - Berlin: Bauernverl. 1958. 163 p. - Price 10 DM - With 447 ref. - Alphab. - Internat. (1548a)

# Tropical and subtropical fruits

Gnany, R.: La documentation en matière de fruits tropicaux et sub-

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tropicaux réalisée à l'Institut des Fruits et Agrumes Coloniaux. -Paris 1956 (Thèse) (1551a)

Fruits tropicaux et subtropicaux. - Paris: Institut Français de Recherches Fruitières outre mer. [IFAC] - Suppl. to 'Fruits d'outre mer' 1.-5.1945/50; 'Fruits' 6.1951-. - Monthly - Abstracts - Indexes: 1) Index permanent des matières 1956:1957. 102 p.; 2) Index des matières (1940-55). Edité par R. Gnany. [1] A-G. 1958. 88 p. - Both indexes arranged with the application of punched cards. (1552)

# Wheat

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Nitrogen fertilizing of wheat. - Harpenden: Comm. Bureau of Soils 1958. (Annot. Bibliogr. 152) - Price 17 s - 174 annot. - 1946/58 (1586c)

# 3.5 Grassland and forge crops

#### India

Whyte, R. O.: The grassland and fodder resources of India. - New Delhi: Indian Council Agric. Res. 1957. 437 p. - Price 16 Rps. - Bibliogr. 16 p. (1624a)

#### Mediterrean countries

Arnon, I.: The improvement of natural pasture in the Mediterrean region. - In: Herbage abstracts 28. 1958 Nr 4 p. 225-231. - Review with 31 ref. (1624b)

#### Netherlands

De Vries, D. M.: Overzicht van de ontwikkeling van het botanische graslandonderzoek in Nederland. - In: Jaarb. Inst. biol. scheik. Onderz. 1957 p. 171-181. - With 79 ref. (1624c)

#### Poland

Falkowski, M.; G. Karlowska: Rys historyczny przebiegu gospodarki lakowopastwiskowej w dolinie rzeki Noteći i jej doplwów. [History of meadow-pasture management in the region of river Noteć (Netze)] - In: Roczn. Nauk. roln. Ser. F 72. 1957. Nr 2 p. 431-558. - With 199 ref. (1625a)

#### South Africa

The grasses and pastures of South Africa. - Johannesburg: Central News Agency 1955. 771 p. - With 254 ref. at end of chapters (1626A4)

# Spain

Montserrat, P.: Los pastizales aragoneses. [The rough grazings of Aragon] - Madrid: Minist. Agric. 1956. 190 p. - With 466 ref. (1626A3)

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# **Tropics**

French, M. H.: Nutrional value of tropical grasses and fodders. - In: Herbage abstr. 27. 1957. Nr. 1 p. 1-9. - Review with 155 ref. (1626A5)

#### USSR

Pleško, C. I.: Korma Tadžikistana. [Forages of Tadzhikistan] - Stalinabad: Akademija Nauk 1957. 197 p. - With 278 ref. (1625b)

Larin, Ivan Vasilévič: Lugovodstvo i pastvičnoe hozjajstvo. [Meadows and pastures] - Moskva: Sel'skogiz 1956. 544 p. - With 296 ref. - USSR - 1922/55 (1626A2)

# Alfalfa

Myers, Will Martin; W. Rudorf: Luzernearten. - In: Handbuch der Pflanzenzüchtung 2. ed. 4. vol. 1959 p. 103-217. - With 380 ref. - Alphab. - Breeding (1652c)

# Establishment of herbage species

Herriott, J. B. D.: The establishment of herbage species in Great Britain. - In: Herbage abstr. 28. 1958 Nr. 2 p. 73-82. - Review with 152 ref. (1629A4)

# Forage seed mixtures

Siebold, Friedrich: Zünftiger Kleegrasbau. - Frankfurt/M.: DLG-Verlag 1957. 92 p. - Price 3,40 DM - With 120 ref. (1636a)

#### Grassland seeds

Wheeler, William A.; D. D. Hill: Grassland seeds. - New York: Van Nostrand 1957. 734 p. - Price 12,50 - Bibl. at end of chapters - Mostly USA (1656a)

#### Grassland soils

Boeker, Peter: Basenversorgung und Humusgehalte von Böden der Pflanzengesellschaften des Grünlandes. - Bonn: Naturhistorischer Verein 1957. 101 p. (Decheniana Beih. 4) - With 191 ref. (1641c)

Van der Kley, F. K.: De betekenis van tweezaadlobbige graslandplanten voor minerale samenstelling van weidegras. [The effect of

102

clovers and herbs on the mineral composition of grass-dominant pasture] - Wageningen: Landbouwhogeschool Afd. Graslandcultuur 1957. 50 p. - With 120 ref. (1641d)

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Steen, Eliel: Betningens inverkan på växtlighet och mark i en mälarstrandäng. [The effect of cattle grazing upon plant cover and soil in a freshwater marshy meadow] - Uppsala: Jordbruksförsök 1957. 85 p. (Meddelande 83) - With 211 ref. (1660b)

#### Sweetclover

Rudorf, Wilhelm: Steinklee - In: Handbuch der Pflanzenzüchtung 2. ed., 4. vol. 1959 p. 218-238. - With 120 ref. - Breeding (1657a)

### 3.6 Horticulture

# Artificial light

Rünger, Walter: Licht und Temperatur im Zierpflanzenbau. - Berlin: Parey 1957. 163 p. - Price 16,80 DM - With 87 ref. (1847a)

#### **Fruits**

Tidbury, G. E.: Bulk harvesting of orchard fruit. - East Malling: Comm. Bureau of Horticulture 1958. 38 p. (Digest 1) - Price 5 s - Review with 72 ref. (1810b) [Buttress, Cambridge]

Annual report 1954/55. - Littlehampton, Sussex: Glasshouse crops research institute 1957. 108 p. - In it: 183 ref. on publications. - Chronol. - 1919/55. (1763a)

# 9.91 Plant protection, general

# Weeds

Harper, John L.: The ecology of ragwort (Senecio jacobaea) with especial reference to control. - In: Herbage abstr. 28. 1958. No 3 p. 151-157. - Review with 77 ref. (1964e)

Lemaistre, J.: Notes bibliographiques sur la lutte contre le souchet rond (Cyperus rotundus) - In: Fruits 13. 1958 Nr 3 p. 97-102. - Review with 16 ref. (1964c)

Bachthaler, G.: Untersuchung zur Keimungsphysiologie des Flughafers (Avena fatua). - In: Zeitschr. f. Acker- und Pflanzenbau 103. 1957. Nr 2 p. 128-156. - With 119 ref. (1964d)

# 3.92 Animal parasites - Entomology

List of serial publications in the library. - London: British Museum. Dpt. of Entomology 1958. 109 p. [BA] (1989a)

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# Colorado potato beetle

Čermáková, A. [et alii]: Mandelinka bramborova (Leptinotarsa decemlineata) Přehled literatury. [Bibliographical review] - Praha: Československá Akademie zemědělských Věd 1958. 61 p. (Prameny literatury 3/4) - 1200 ref. - Classified - Internat. - Author index (2018b)

#### Vertebrates

Klemm, Michael; K. Mansfeld: Vertebrata. - Berlin: Parey 1958. 414 p. (Handbuch der Pflanzenkrankheiten Vol. 5, part 5) - Price 88 DM - Ref. at end of chapters (2035a)

#### 3.95 Control

Advances in pest control research. Vol. 2. - New York: Interscience. 1958. 434 p. - Price 12,50 \$ - 8 reviews (2079a)

# Residues of pesticides

Zeumer, Hans: Rückstände von Pflanzenschutz- und Vorratsschutzmitteln. Literaturübersicht. - Berlin: Parey 1958. 124 p. (Mitt. d. Biolog. Bundesanstalt 94) - Price 11 DM - 2200 ref. - Classified -Mostly 1955/57 (2124c)

# 4.1 Animals, general

#### Poland

Bibliografia zawartości miesiecnika 'Przeglad hodowlany' 1927/54. [Bibliography of journal' Review of livestock'] - Kraków: Instytut Zootechniki 1955. 315 p. - A cumulativ index with 3334 ref. - Classified - Author index (2163b)

Zestawenie publikacji ogloszonych przez pracowników Instytutu Zootechniki 1950/57. [Publications of research workers of Institute] - Kraków: Instytut Zootechniki 1958. 176 p. - 1105 ref. - Classified - Author index (2163c)

#### Environment and livestock

McBride, Glenorchy: The environment and animal breeding problems. - In: Animal breeding abstracts 26. 1958. No 4 p. 349-358. - Review with 37 ref. (2266a)

### Horse

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Antoniewicz, B.; J. Uznanski: Bibliografia zawartości miesiecnika 'Hodowca koni' 1946/48. [Bibliography of journal 'Horse breeder'] - Kraków: Instytut Zootechniki 1957. 41 p. - A cumulativ index with 392 ref. - Classified - Poland - Author index (2230c)

## Small farm animals

Pietruszewskaja, K.: Bibliografia zawartości miesiecnika 'Hodowca drobnego inwentarzi' 1953/55. [Bibliography of journal' 'Small farm animals'] - Kraków: Instytut Zootechniki 1956. 60 p. - A cumulative index with 789 ref. - Classified - Author index - Poland (2206a)

## 4.2 Animal nutrition

### Nigeria

Oyenuga, V. A.: Problems of livestock nutrition in Nigeria. - In: Nutrition abstracts 28. 1958 No 4 p. 985-1000. - Review with 41 cit. (2275a)

### Carotene

Klimeš, I.: Rychlá metoda pro seriová stanovení karotenů v zelených i silážovaných pícninách, seně a zelenině. [Rapid methods for series determination of carotene in green and ensiled forage, hay and vegetables] - In: Vědecké práce. Praha 1957. No 2. p. 145-170. - With 163 ref. (2304a)

## Herbage

Fauconneau, G.; R. Jarrige: Composition chimique et valeur nutritive de l'herbe. - In: Bull. techn. Inform. Jony-en-Josas: Centre National de Recherches Zootechniques 1957. No 118 p. 173-214. - With 201 ref. (2298b)

### Ruminants

Ford, E. J. H.: Metabolic changes in cattle and sheep at parturition. In: Vet. Reviews 4. 1958 No 2 p. 119-131. - Review with 91 cit. (2329b)

### Silage

Vanbelle, M.: Nieuwigheden inzake inkuilen. [Ensiling innovations] - In: Agricultura. Louvain 5. 1957 No 2 p. 163-201. - Review with 163 ref. (2292a)

### 4.4 Fisheries

### Fish as food

Tumigasu, Yukio; Buhei Zenitani: Spoilage of fish and its preservation by chemical agents. - In: Advances in food research 7. 1957 p. 42-83. - Review with 160 ref. (2433a)

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## Physiology of fishes

The physiology of fishes. Ed. by Margaret E. Brown. 2 vols. - New York: Academic Press 1957. 447 + 526 p. - With 2470 ref. at end of chapters (2446a)

# 5.1 Agricultural engineering, general

### Germany

Stroppel, Theodor: Kurzauszüge und Sachverzeichnis der Schriftenreihe 'Grundlagen der Landtechnik' Heft 1-10. - Düsseldorf: VDI-Verlag 1958. 21 p. - Price 3 DM - 123 abstr. - Classified - With U.D.C-numbers - Author index (2512b)

### Great Britain

List of publications. - Silsoe: National Institute of Agricultural Engineering 1958. 32 p. [BA] (3536a)

## 5.2 Machines and equipment

## Chop Threshing

Abell, Louis Felix: Hakseldorsen. [Chop threshing] - In: Landbouwdocumentatie 14. 1958 No 27 p. 835-844. - Review with 35 ref. (2540a)

# 5.4 Reclamation, irrigation, hydrology

# Hydrologic forecasting

Thuronyi, Geza: Recent literature on hydrologic forecasting. - In: Meteorological abstracts 8. 1957 p. 657-682. (2622a)

## Limnology

Zernov (Sernow) S. A.: Allgemeine Hydrobiologie. - Berlin: Deutscher Verlag der Wiss. 1958. 676 p. - Price 56 DM - With 1400 ref. - Russian titles also in German. - Translated from Russian (Obščaja gidrobiologija) (2625a)

### Peat cultivation

Rudometov, I. I.: K istorii tehniki dobyči torfa. [History of peat cultivation] - In: Trudy instituta istorii estestvoznanija i tehniki.

Moskva 3. 1958 p. 216-237. - With 398 ref. - Chronol. - Russia - 1766/1917 (2633a)

Sewage

Imhoff, Karl [et alii]: Disposal of sewage and other water-borne wastes. - London: Butterworth 1956. 347 p. - Price 35 s - Ref. at end of chapters - 'Complete bibliographies' (2602e)

## 6.2 Agricultural economics

Germany

Ideengeschichte der Agrarwirtschaft und Agrarpolitik im Deutschen Sprachgebiet. Vol. 2: Heinz Haushofer: Im 20. Jahrhundert. - München: Bayer. Landw.-Verlag 1958. 480 p. - Price 54 DM - With 521 ref. - 1. vol. see 1. series (Q.B. 3. p. 143)

European common market

De Euromarkt. - Wageningen: Centrum voor Landbouwdocumentatie 1957/58. 20 p. - 400 ref. - New title (p. 12-20): Landbouwkundige aspecten van de Euromarkt (2745a)

6.4 Agricultural labour

Madatjan, A. I.: Literatura po voprosam proizvoditel'nosti truda v sel'skom hozjajstve. - In: O metodah isčislenija proizvoditel'nosti truda v sel'skom hozjajstve. [Methods of measuring of efficiency of labour in agriculture] Moskva 1957 p. 289-299. - 198 ref. (2789c)

## 6.7 Land tenure

Consolidation on holdings

Thirionet, J.: Bibliography on consolidation of land holdings in Belgium [in Flemish]. - In: Land- en Tuinbouw Jaarb. 11. 1956/57 p. 50-55. [BA] (2862a)

6.8 Cooperation

Genossenschaftliche Bibliographie selbständiger Werke in deutscher Sprache. - Frankfurt/Main: Deutsche Genossenschaftskasse 1957. 323 p. - 4100 ref. - Books, theses, periodicals - Classified - Author index - In it: 1500 ref. on agriculture (2874a)

# 7.1 Agricultural products, general

Analysis of foods

Jacobs, Morris B.: The chemical analysis of foods and food products. 3. ed. - Princeton N. J.: Van Nostrand 1958. 970 p. - Price 13,75 \$ - With 185 ref. at end of chapters and 718 footnotes (2905b)

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### Corrosion

Bibliographie sur la corrosion on particulier dans les industries alimentaires. - Paris: Comm. Int. Ind. Agric, 1958. 15 p. (Bibliogr. 2797) [BA] (2982d)

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## Drying

Hall, Carl W.: Drying farm crops. - Reynoldsburg, Ohio: Agricultural Consulting Associates 1957. 336 p. - Price 7 \$ - With 319 ref. at end of chapters (3009a)

## Flavor in foods

Caul, Jean F.: The profile method of flavor analysis. - In: Advances in food research 7. 1957. p. 1-40. - Review with 59 ref. (2936a)

### Hides and skins

Stather, Fritz: Gerbereichemie und Gerbereitechnologie. 3. Aufl. - Berlin: Akademieverlag 1957. 948 p. - Price 88 DM - With 2000 cit. as footnotes, 265 ref. on books, 31 ref. on periodicals (2948)

### Licorice

Nieman, C.: Licorice. - In: Advances in food research 7. 1957 p. 339-381. - Review with 238 ref. (2983a)

### Meat

Skolimowska, J.: Bibliografia zawartości miesiecnika 'Gospodarka miesna' 1949/56. [Bibliography of journal 'Meat industry'] - Kraków: Instytut Zootechniki 1957. 121 p. - A cumulativ index with 1731 ref. - Classified - Poland - Author index (2933c)

## Refrigeration

Harper, J. C.; A. L. Tappel: Freeze drying of food products. - In: Advances in food research. 7. 1957 p. 172-235. - Review with 75 ref. (2960b)

Bibliography of literature on freezing technology. - In: Frosted food field 24. 1957 No 6 p. 32-35; 26. 1958 No 6 p. 26-27; 27. 1958 No 1 p. 24-25. [BA] (2962a)

### Sugar

Timoshenko, Vladimir P.; B. C. Swerling: The world's sugar. - Stanford, Cal.: Stanf. Univ. Press 1957. 364 p. - With 618 ref. and cit. at end of chapters (3026a)

### 7.2 Dairy science

Schulz, Max Erich: Dokumentation und Utilisation. - In: Kieler milchwirtschaftliche Forschungsberichte 9. 1957. No 4 p. 459-471. (3037a)

Wiehr, Robert: Erfassung und Auswertung des Schrifttums über Milchforschung und Milchwirtschaft (Dokumentation und Utilization). - In: Milchwiss. 13. 1958 No 7 p. 297-302. (3037b)

## Germany

Wissenschaftlicher Jahresbericht 1957/58. - Freising: Süddeutsche Versuchs- und Forschungsanstalt für Milchwirtschaft Weihenstephan 1958. 93 p. - In it: Publications of research workers - 208 ref. - 1953/57 (3067a)

### Poland

Bogdanowicz, M.: Bibliografia zawartości miesiecnika 'Przeglad mleczarski' 1953/56. [Bibliography of journal 'Dairy review'] - Kraków: Instytut Zootechniki 1957. 61 p. - A cumulativ index with 778 ref. - Classified - Poland - Author index (3067c)

### Cheese

Kosikowski, Frank V.; G. Mocquot: Advances in cheese technology.
- Rome: FAO 1958. 236 p. (Agricultural studies 38) - With 359 ref.
- Classified (3081a)

#### Frozen milk

Samuelsson, E.-G. [et alii]: The manufacture and storage of frozen milk and cream. - In: Dairy science abstracts 19. 1957. No. 11, 12 p. 874-889, 974-983. - Review with 183 cit. (3077a)

## Milk hygiene

Kästli, P.: The influence of the heating of milk on the viability of pathogenic germs and on the activity of their toxins. - In: Dairy science abstracts 19. 1957 No 10 p. 782-801. - Review with 59 cit. (3101a)

## Milk proteins

Henry, Kathleen M.: The nutritive value of milk proteins. - In: Dairy science abstracts 19. 1957 No 8, 9 p. 604-616, 692-704. - Review with 183 cit. (3097a)

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## 8.1 Forestry, general

### **United States**

Dana, Samuel Trask: Forest and range policy. Its development in the United States. - New York: Mac Graw-Hill 1956. 455 p. - Price 6,75 \$ - With 285 ref. (3392a)

# 8.2 Special forestry, arranged by Oxford classification

### 145.7 Forest insects

Androić, Milan: Borov četnjak gnezdar [Cnethocampa pityocampa]. - In: Glasn. šumske pokuse. Zagreb 13. 1957 p. 351-459. - With 124 ref. (3412A)

## 165 Forest genetics

Bouvarel, P.: Génétique forestière et amélioration des arbres forestiers. - In: Bull. Societé bot. France 103. 1956. Nr 1/2 p. 35-74; 104. 1957 No 7/8 p. 552-586. - Review with 523 ref. (3413a)

## 323.315 Seed storage

Holmes, G. D.; G. Buszewicz: The storage of seed of temperate forest species. - In: Forestry abstracts 19. 1958 Nr 3, p. 313-322, 455-476. - Review with 227 ref. (3453a)

## 4. Forest injuries

Schwerdtfeger, Fritz: Die Waldkrankheiten. 2. ed. - Hamburg: Parey 1957. 485 p. - Price 39 DM - With 300 ref. at end of chapters (3468A)

## 8 Forest products

List of publications of the Forest Products Laboratories of Canada. - Ottawa: Dpt. of Northern Affairs and National Resources 1958. 21 p. [BA] (3484a)

# 83 Timber manufacturing industries

Zenkteler, Michal: Bibliografia piśmiennictwa pracowników katedry mechanicznej technologii drewna U.P. 1949/50 i wydzialu technologii drewna W.S.R. w Poznianiu (1951/58). [Publications of research workers of institute (1949/50) and faculty (1951/58) for wood technology in Poznan] - In: Roczniki Wyszej Szkoly Rolniczej w Poznaniu 1958 No 3 p. 175-186. - 159 ref. (3505a)

# 913 Relations between forest and pastural land

Rieben, E.: La forêt et l'economie pastorale dans le Jura. - Vallorbe,

Switzerland: Author 1957. 250 p. - Price 21 sfr. - With 208 ret. (3535a)

## 9. Veterinary science

### 9.3 Diseases

### Diabetes

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Wilkinson, J. S.: Spontaneous diabetes in domestic animals. - In: Veterinary reviews and annot. 3. 1957 p. 69-96; 4. 1958 p. 93-117. - Review with 175 cit. (3669a)

### Infectious diseases

Hagan, William Arthur; D. W. Bruner: The infectious diseases of domestic animals. 3. ed. - Ithaca: Comstock 1957. 968 p. - Price 10,50 \$ - Also: London: Bailliere - With 2550 cit. at end of chapters (3678)

## 9.4 By animals

### Cattle

Bloat in cattle. - In: New Zealand Journal of Science and Technology A 38. 1937 No 9, 10 p. 908-922, 956-965, 1036-1080. - With 176 ref. (3751c)

## 9.5 Parasitology and bacteriology

## Corynebacterium

Purdom, Mary R.; A. Seaman; M. Woodbine: The bacteriology and antibiotic sensitivity of Corynebacterium pyogenes. - In: Veter. Reviews 4. 1958. No. 2 p. 55-92. - Review with 263 cit. - Alphab. - Causes the 'summer mastitis' of cows. (3827A2)

## 9.7 Special groups

# Meat inspection

Schönberg, Fritz; O. Zietzschmann: Die Ausführung der tierärztlichen Fleischuntersuchung 5. ed. - Berlin: Parey 1958. 335 p. - Price 41 DM - With 196 ref. at end of chapters (3871c)

### Corrections

- 1) Series 2. (1958 p. 180): 'Johns...' does not belong to Haematology, but to '9.3 Diseases' with new number (3751b) under the catchword Bloat.
- 2) Series 3 (1959 p. 47) Sewage: Roediger, Hanns: Die anaerobe alkalische Schlammfaulung. München: Oldenbourg 1956. 196 p. (Schriftenreihe GWF1) Price 25 DM With 240 ref. (2602d)

# New Agricultural Periodicals

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(also Changes of Title, and Cessations) from January 1955 onwards

AMI news. Kennet Square, Pa. Title changed to: Mushroom news.

ASAE: See: American Society of Agricultural Engineers. Advances in chemical physics. 1- . New York, 1958- .

Agnelage. (Fédération Nationale Ovine). 1- . Paris, [?1958- ]. Agrarnoe zakonodatel'stvo zarubezhnykh sotsialisticheskikh stran. 1.

Moskva, 1957.

Agricultural aviation. 1.1- . The Hague, European Agricultural Aviation Centre, 1959- . Quarterly. Annual Subscription: U.K., 24s.0d.; France, frs. 1,700; Switzerland, frs. 13.60; U.S.A. and Canada, \$3.50; elsewhere \$3.50 or £1.8.S.0D. (See above, page 87).

Agritrigo. (Ministero da Agricultura, Serviço de Expansão do Trigo,

Brazil). 1- . Rio de Janeiro, Jan 1958-

Akademiya Nauk Azerbaidzhanskoi SSR. Izvestiya:

Seriya biologicheskikh i sel'skokhozyaistvennykh nauk, 1-Baku, 1958- .

Seriya fiziko-tekhnicheskikh i khimicheskikh nauk, 1- . Baku, 1958- .

Seriya geologo-geograficheskikh nauk, 1- . Baku, 1958-

Alberta. Department of Agriculture. Poultry Branch. Publication. 1- . [?Edmonton], 1958- .

Ali-Abad Experiment Station. See under: Kabul.

Älvsborgs Laens Soedra Hushållningssällskap. Ärsskrift. [?1- ] Borås, 1958- .

American Christmas tree growers' journal. 1.1- . Columbus, Ohio, 25 May 1956- . (National Christmas Tree Growers' Assoc., Southern Hotel, Columbus 15, Ohio).

American Society of Agricultural Engineers. Transactions. 1- . St. Joseph, Mich., 1959- . Annual.

Antibiotiki. 3.2. Moskva, Medgiz, Mar/Apr 1958.

Årbok for Norges fiskerier og fiskeindustri, havalfangst og selfangst.
[?1- ]. Oslo, 1954/55- . Annual. (Trondhjemsvn 72). Text in Norwegian or English.

Australia. Commonwealth Scientific and Industrial Organization. Division of Forest Products. Forest products news letter, 1-

Melbourne, 1956- . Irregular.

Australia. Commonwealth Scientific and Industrial Research Organization. Division of Forest Products. Technological paper. 1- Melbourne, 1958- .

Avelsförening för Svensk Röd och Vit Boskap. Tidskrift. Stockholm. Ceased with 30.4 (1957.

Bahia Blanca. Universidad Nacional del Sur. Instituto de Edafologia e Hidrologia. Publicaciones, 1- . Bahia Blanca, 1958- .

Baku. Akademiya Nauk Azerbaidzhanskoi SSR. See: Akademiya Nauk Azerbaidzhanskoi SSR.

Barbados. Department of Science and Agriculture. Record of investigations. [?1- ]; 1954/55- .

Biochemical pharmacology. 1.1- . New York, July 1958- .

Boletín de agricultura y ganaderia. 1.1- . Buenos Aires, Aug 1958- . (Paseo Colon 974, Buenos Aires, Argentina).

Botanisches Zentralblatt. See: Excerpta botanica.

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British Landrace Progeny Testing Co. Ltd. Landrace progeny testing report. 1- . [Malton], 1956/57- .

British Solomon Islands. See: Solomon Islands (British).

Bucharest. Museum d'Histoire Naturelle 'Gr. Antipa'. Travaux. 1-București, 1957-

Budapest. Mezögazdasági Gépkisérleti Intézet. Mezögazdasági gépesítési tanulmányok. 1- ; 1957- . English summaries. Earlier results published as Gépkisérleti Intézet közleményei).

Budapest. Órszágos Mezőgazdasági Könyvtár és Óokumentációs Központ [Hungarian National Agricultural Library & Documentation Centre]. Közlemények [proceedings]. 1-; 1958-. (Attila utca 53, Budapest I).

California. University. School of Forestry. Winton lecture. [?1- ]. Berkeley, 1956- . Annual.

Carta agraria. (Caja de Credito Agrario). 1- . Bogotá, July 1958- . Monthly (?).

Centralblatt. See: Zentralblatt.

Československa Akademie Zemědělskych Ved. Ustredni Radiobiologicka Komise. Bulletin Radiobiologicke Komise. 1- . Praha, 1956- . Monthly. (Ustredni Zemědělska Knihovna, Slezska Ul. 7, Praha 12.)

Chih ping chih shih [Plant pathology knowledge]. 1- . Peking, Chung Kuo-chih Wu Pin Li Hsüeh Hui, 1958- .

Colonial plant and animal products. London. Ceased with 6.3/4 (1956). Continued as: Tropical science. (Tropical Products Institute, 56/62 Grays Inn Road, London WC1).

Cornell University. College of Agriculture. Department of Agricultural Economics. A E research. 1- . Ithaca, N.Y., July 1958- . Irregular.

Cotton: quarterly statistical bulletin. Washington. (International Cotton Advisory Committee.) Ceased separate publication with 11.4 (July 1958); October 1958-, issued as part 2 of: Cotton: monthly review of the world situation.

G

G

G

Crops and soils. 11.1- . Madison, Oct 1958- . Continuation of:

What's new in crops and soils.

Drayton Experimental Husbandry Farm. See under: Great Britain. National Agricultural Advisory Service.

East African Fisheries Research Organization. Pamphlet. 1- . Jinja, Uganda, 1957- . (POB 343, Jinja).

East Pakistan. See: Pakistan, East.

Egyptian journal of botany. 1.1- . Cairo, 1958-

Erdészeti kutatások [Forest researches]. 1/2- . Budapest, Erdészet Tudományos Intézet, 1957- .

Évkönyv. Kertészeti Kutató Intézet. Yearbook. Research Institute for Horticulture 2 (1957). Budapest, 1957.

Excerpta botanica. Jena, 1959- . (Continuation of Botanisches Zentralblatt). Section a, Taxonomica et chorologica; section b, Oecologica et sociologica.

FAO world seed campaign news. 1- . Rome, 1958-

Farm Buildings Association journal. 1- . Braunston, Dec 1957- . Annual; price varies. (Sec.-Treas., Westfield, Braunston, Oakham, Rutland, England).

Forstliche Umschau. Referate über das forst- und holzwirschaftliche Schrifttum. 1.1- . Hamburg, 1958- . Bimonthly.

Forus. See: Statens forsøksgard Forus.

Garden news. 1- . Petersborough, 4 July 1958- . Weekly. (East Midland Allied Press, Peterborough).

Gardeners forum. (American Horticultural Society). 1- . Washington, D.C., Feb 1958- . (1600 Bladensburg Rd., N.E., Washington 2, D.C.)

Gembloux. Station de Recherches de l'Etat pour l'Amélioration des Plantes Fruitières et Maraîchères. Rapport général. [?1-]; 1957-

Ghent. Universiteit. Veeeartsenijschool. Mededelingen. 1.1-; 1957-. (Supplement to: Vlaams diergeneeskundig tijdschrift).

Great Britain. Ministry of Agriculture . . . National Pig Records. Annual report. 1(1954/55)- . London.

Great Britain. Ministry of Agriculture... Report on condition of vegetable crops in England and Wales. Pests and diseases. 1-London, 1 Apr 1958.

Great Britain. National Agricultural Advisory Service. Drayton Ex-

perimental Husbandry Farm. Farm guide. 1- . Stratford on Avon, 1958- .

Great Britain. National Agricultural Advisory Service. Liscombe Experimental Husbandry Farm. Farm guide. 1- . Dulverton, 1958- .

Great Britain. National Agricultural Advisory Service. Horticultural machinery leaflet. 1- . [London], March 1958- .

Great Britain. Pig Industry Development Authority. Annual report.

1- . London, 1958- . (Pida House, Ridgmount Street, London WC1.)

Green bulletin: information about manuring. 1- . Hanover, 1955- . Grower Guide annual.1- . London, 1958- .

Hardy Plant Society. Bulletin. 1- . London, 1957- . Irregular. (2-10 Tavistock St, London, WC2; gratis.)

Hibridni kukuruz Jugoslavije. (Udruzenje za Unapredenje Proizvodnje Kukuruza FNR J). 1- . Beograd, Apr/May 1958- . (Njegozeva 7, Beograd).

Histochemie. 1.1- . Berlin, Apr 1958- . Irregular.

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Horticultural advance. 1- . Saharanpur, Horticultural Research Institute, Dec 1957- .

Hsi pei nung yeh k'o hsüeh [Northwest agricultural science]. 1- . Wukung, 1958- .

Hua nan nung yeh k'o hsüeh [South China agricultural science]. 3. Canton, 1957.

Hungarian National Agricultural Library, Budapest. See: Budapest. Országos Mëzogazdasági Könyvtár . . . .

Ilanoth. 4. Ilanoth (Israel), Forest Research Station, 1958.

India. Ministry of Food and Agriculture. Plant quarantine information sheet. 1-. New Delhi, 1958- .

Indian journal of applied chemistry. 1- . Calcutta, 1958- . Bimonthly; annual subscription 12 rs. (Indian Chemical Society, 92 Upper Circular Road, Calcutta 9).

Indian oilseeds journal. 1.1- . Hyderabad, Indian Central Oilseeds Committee, Oct 1956- .

International Commission for the Northwest Atlantic Fisheries. Sampling yearbook. 1- . Halifax, N.S., 1955/56- .

International Dendrology Union. News letter. 1- . [London, etc.]
Oct 1955- . Irregular. (G. Krüssmann, Sec., International Dendrology Union, Dortmund-Brünninghausen, W. Germany).

International journal of radiation biology and related studies in physics, chemistry and medicine. 1- . London, 1959- . Quarterly.

International Pacific Salmon Fisheries Commission. Progress report, [1]- . New Westminster, 1956- .

International technical titles. 1.1- . Los Angeles, Jan 1958-Monthly. (Technical Library Associates, 11261 Venice Boulevard, Los Angeles 66, Calif.) Annual subscription \$8. [A compilation of tables of contents of journals in pure and applied . . . physics, chemistry . . .; covers about 130 journals].

International Union of Forest Research Organizations. Circular. [?1-]. London, 1958- . Irregular. (Forestry Commission, 25 Sa-

vile Row, London, W.1.)

Iowa University. Institute of Agricultural Medicine. Bulletin. 1-Iowa City, 1957- .

Je tai tso wu yen chiu t'ung hsun [Tropical crops research bulletin]. Canton, South China Tropical Crop Science Research Institute, Feb 1957-

Jord og avling: faglig meldingsblad for forsøksringene. 1- . Gjøvik,

Jordbrukets prisindeks. See under: Norges Landbrukshøgskole, Vollebekk.

Journal of biological sciences. 1.1- . Bombay, 1958- . Semi-annual. (Bombay Biological Association, 92 Waterfield Cross Road, Bombay 20.)

Kabul. Ali-Abad Experiment Station. Circular. 1-; July 1957-Irregular.

Koiramme. Suomen Kennel-Liiton julkaisu. 25- . Helsinki, 1959-Continuation of: Suomen Kennel-Liiton julkaisu.

Landbouw-service. 1- . Brussels, Jan/Feb 1956-

Landrace progreny testing report. See under: British Landrace Progeny Testing Co. Ltd.

Laval University Forest Research Foundation. Contributions. 1-Quebec, 1958-

Liscombe Experimental husbandry Farm. See under: Great Britain. National Agricultural Advisory Service. Lithuania. Zemes Ukio Ministerija. [Leidinys]. 1- . Vilna, 1958-.

Lolland-Falsters landbrugs-tidende. Nyköbing. Ceased with 37.37 (Sept 1956).

Lystfiskeren. 1- . Copenhagen, Nov 1957- .

Maracay. Instituto de Producción Animal. Informe anual. [?1-]. Caracas, 1955/56-

Materiae vegetabiles. The Hague. With 3/4 (1958) title changed to: Qualitas plantarum et materiae vegetabiles.

Mauritius Sugar Industry Research Institute. Occasional paper. 1-. Réduit [Port Louis printed], Oct 1958- .

Metsanduslikud uurimused. (Eesti NSV Teaduste Akadeemia, Zoologia ja Botaanika Instituut). 1- . Tartu, 1957- . Russian and German summaries.

Michigan. State University of Agriculture and Applied Science, East Lansing. Dairy Manufacturers Conference. Proceedings. [?1-]; 1957-. Annual.

Milan. Instituto di Ricerche Agrarie. Contributi. [?1-]; 1956-

Mitschurin Bewegung. Zeitschrift der landwirtschaftlichen Praxis. Beilage. 1- . [Berlin], 1958- .

Mitteilungen für Moor- und Torfwirtschaft. München. With 5.1/3 (June 1957) title changed to Mitteilungen für Landkultur, Moor- und Torfwirtschaft.

Mushroom news. Kennet Square, Pa. Formerly entitled: AMI news.

Nagoya University Forests. Bulletin. 1- ; 1958-

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Near East Forestry Commission. Report. 1- . Damascus, 1958-

New Brunswick. Department of Agriculture. Horticulture Branch. Circular. 2. Fredericton, 1958.

Norbottens lantmanna blad. 2. Lulea, Mar 1958.

Norges Landbrukshøgskole, Vollebekk. Institutt for Driftslaere og Landbruksøkonomi. Jordbrukets prisindeks. 1- . Vollebekk, 1958- . Formerly included in Memorandum.

Norges Landbrukshøgskole, Vollebekk, 1958- .

Norsk Skogbruksmusem, Elverum. Arbok. 1(1954/57)- . Elverum, 1958- .

North Dakota Agricultural College. Bimonthly bulletin. Changed title with 20.4 (1958) to North Dakota farm research.

Noth Dakota farm research. 20.4- . (Fargo), 1958- . Continuation of: North Dakota Agricultural College, bimonthly bulletin.

North Louisiana Hill Farm Experiment Station. Hill farm facts: forestry. 1- ; 1958- .

Northwest agricultural science. Wukung. See: Hsi pei nung yeh k'o hsüeh.

Olii grassi e saponi. 1.18. Roma, Associazione Nazionale dell'Industria Olearia, dei Grassi, Saponi ed Affini, 23 July 1958.

Országos Mezögazdasági Könyvtár és Dokumentációs Központ közleményei. Proceedings of the Hungarian National Agricultural Library and Centre for Documentation. See under: Budapest. Országos Mezögazdasági Könyvtár....

Osterreichische Landwirtschaftliche Betriebe. Betriebsbeschreibungen.

1- . Wien 1956 -. (Club der Land- und Forstwirte and Austrian Productivity Centre).

Pakistan, East. Directorate of Agriculture. Bulletin. 1- . Dacca, 1956- . Irregular.

Pflanzenschutzmittel-Verzeichnis. Liste des produits antiparasitaires. Wädenswil. Ceased with 1954. Partly continued in Pflanzenschutzmittel-Verzeichnis.

T

Philippines. Department of Agriculture and Natural Resources. Agriculture project. 1- . Manila, [?1958- ].

Philippines University, Quezon. Forest Research Institute. Research program for industrial development. [?1- ]. Laguna, 1957/58-.

Physical review letters. 1.1- . Freeport, N.Y., American Physical Society, July 1 1958- . Contains material formerly included in 'Letters to the Editor' section of the Physical review.

Plant pathology knowledge. Peking. See: Chih ping chih shih.

Qualitas plantarum et materiae vegetabilis. 3/4-. The Hague, 1958-. Continuation of: Materiae vegetabiles.

Revista pecuaria de Nicaragua. (Asociación de Ganaderos de Nicaragua). 1- . Managua, Aug 1957- .

Revue algologique. Mémoire hors-série. 1- . Paris, Muséum d'Histoire Naturelle, 1957- .

Salvador. Departamento de Divulgación Agropecuaria. Boletín avícola. 1- . Santa Tecla. July 1957- .

Saratov. Nauchno-Issledovatel'skii Institut Sel'skogo Khozyaistva Yugo-Vostoka. Byulleten' nauchnoi informatsii. 1- ; 1956- .

Soil Conservation Society of America. Wisconsin Chapter. Newsletter. 1- . Madison, 1956- . Quarterly. (621 N. Henry St., Madison, Wis.)

Solomon Islands (British). Forest Department. Report. [?1-]; 1957- . Annual.

Sør- og Vestlandsfeet: tidsskrift for avlslaget for Sør- og Vestlandsfe i Rogaland. 1- . Stavanger, 1956- .

South Carolina Agricultural Experiment Station, Clemson College.
Agronomy Department. Mimeographed series. 1- ; 1957-

South China agricultural science. Canton. See: Hua nan jung yeh k'o hsüeh.

Statens forsøksgard Forus. Serprent. 1- . Oslo, 1957-

Statens såvareråd. Melding. 1(1954/56)- . Flisa, 1958-

Suomen Kennel-Liiton julkaisu. Helsinki. Title changed with 25.1 (1959) to: Koiramme.

Talanta. International journal of analytical chemistry. 1.1/2- . London, 1958- .

Tanganyika. Forest Department. Utilisation Division. Technical note.
1- . Moshi, 21 March 1957- .

Telemark tømmermåling. Årsberetning og regnskap. 1- . Skien, 1957/58- .

Thailand. Division of Agricultural Economics. Agricultural statistics of Thailand. [?1- ]. Bangkok, 1955- . Annual; text in English and Thai.

Tobacco science. 1- . New York, Lockwood Trade Journal Co., 1957- . Annual.

Toten forsøksring. Melding. 1- . Gjøvik, 1955-

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Transactions of the A.S.A.E. See under: American Society of Agricultural Engineers.

Tropical crops research bulletin. Canton. See: Je tai tso wu yen chiu t'ung hsun.

Tsvetosvodstvo. 1- . Moscow, 1958- . Bimonthly. (Ministerstvo Sel'skogo Khozyaistva SSSR, Orlikov per. 1/11, Moscow I-139).

Tübingen. Bundesforschungsanstalt für Viruskrankheiten der Tiere. Arbeiten. 1- ; 1955/56- . Consists of collected reprints.

Ukrainskaya Naucho-Issledovatel'skaya Laboratoriya Molochnii i Maslosyrodel'noi Promyshlennosti. Trudy. 1- . Kiev, 1957- .

Victoria, Australia. Department of Agriculture, Biology Branch. Insect advisory notes. 1- . [?Melbourne], 1957- .

Wageningen. Instituut voor Landbouwbedrijfsgebouwen. Mededeling. 1- ; 1958- .

Wageningen. Landbouwhoogeschool. Botanische Tuin. Mededelingen van de Botanische Tuinen en het Belmonte Arboretum. 1-1957- . Quarterly. (Gen. Foulkesweg 37).

What's new in crops and soils. Ceased with 10.9 (Aug/Sep 1958). Continued as: Crops and soils.

Willdenowia. 2.1. Berlin-Dahlem, Botanischer Garten und Museum, Feb 1958.

Zeitschrift der landwirtschaftlichen Praxis. Beilage. See under: Mitschurin Bewegung.

Zentralblatt (Centralblatt) für das gesamte Forstwesen. Wien. Resumed publication with 75.1 (Mar 1958).

Zentralblatt für Veterinärmedizin. Beiheft. 1- . Giessen, 1927- .

# **Dictionaries**

Boros, Georg. Lexikon der Botanik, mit besonderer Berücksichtigung der Vererbungslehre und der angrenzenden Gebiete. Stuttgart, Eugen Ulmer, 1958. Pp. 276.

Plaisance, Georges & Cailleux, A. Dictionnaire des sols. Paris, La Maison Rustique, 1958. Pp. 604. (Entirely French). Price: 7,500 fr.fr. (26 rue Jacob, Paris 6).

## Selected Reference Works

Frandsen, Julius H. Dairy handbook and dictionary. Amberst, Mass., The Author, [?1958]. Pp. 843. (92 High St., Amherst, Mass.) Price: \$9.75.

E

Stephenson, Hadley C. & Mittelstaedt, S.G. Veterinary drug encyclopedia and therapeutic index: a listing of veterinary drugs, biologicals and foods, and feed additives of American manufacturers. 6 ed. New York, Drug Publications, [?1958]. Pp. 412.

### **BOOK REVIEWS**

Blanchard, J. R. & Ostvold, H. Literature of agricultural research. Cambridge University Press, 1958. Pp. x, 231; price 37s. 6d.

This is the first of a series of 'Bibliographic Guides' sponsored by the libraries of the University of California and prepared mainly by

the library staffs.

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The entries are in seven main sections, serially numbered from A to G for reference purposes, namely: agriculture, general; plant sciences; animal sciences; physical sciences; food and nutrition; social sciences, and a 5-page Addendum of works noted too late for inclusion in the main body. The further subdivision of e.g. plant sciences (B) is into botany, horticulture and agronomy, plant breeding etc. Within this subdivision the entries are arranged in the following categories: bibliographies of bibliographies and general works; abstracting journals; bibliographies and indexes; encyclopedias; dictionaries, directories, handbooks, yearbooks, history and biography, societies and organizations, etc.

Each main section and many of the subdivisions are prefaced by a note explaining the selection policy and referring the reader to relevant works listed in other parts. Within each main section, e.g. plant sciencies (B) all items are serially numbered, e.g. items under botany from B1 to B81, under horticulture and agronomy from B82 to B128

and so on.

There is a useful 55-page author and subject index, with the author's works listed by title under his name, with indication of the

serial number of the item.

The authors have aimed to include only the more valuable reference tools, capable of guiding the reader to the other sources. The emphasis is naturally on American work but the more important United Kingdom and German reference sources are included, and there are a certain number of entries from other countries. The literature of the Near, Middle and Far East, and of the tropics generally, is only very lightly touched on. A notable absentee is the remarkable Russian abstract journal Referationyi Zhurnal (section Biologiya) which is far and away the main source of information on current work in Russia and other Communist countries.

The book is thus intentionally somewhat narrower in scope than Lauche's *Internationales Handbuch* and within its scope is in parts less detailed. This in no way detracts from its value. It is a careful and well presented survey of an important human resource, a very

useful tool for information, comparatively inexpensive and very easy to use.

Minor mistakes and misprints are more numerous than one would expect in a book of this type. Thus, to mention only a few, in the first entry (A1 on p. 3) Societas appears as 'Societies'; in A19 and again on p. 215 Schrifttum is spelt 'Schriftum'; in A65 Européenne appears as 'Européene'; in C58 we have 'frenzgebiete' instead of grenzgebiete; and in C228 École Nationale Vétérinaire appears as 'École National Vétérinarie'. But these blemishes may largely be due to the fact that the book is not printed but reproduced by a 'pro-printing' process, in which proof-reading in the accepted sense of the phrase is not possible.

DENMAN, D. R. & others. Bibliography of rural land economy and landownership 1900-1957: a full list of works relating to the British Isles and selected works from the United States and Western Europe. By D. R. Denman, J. F. Q. Switzer and O. H. M. Sawyer. Cambridge University, Department of Estate Monagement, 1958. Pp. [12], 412; price 35s. Od.

This bibliography will assist all who are concerned with landownership, land management and land affairs generally, whether they be owners, farmers, professional consultants or government officials. Its scope is rural only and does not touch an urban landownership at all; agricultural economics, marketing and education come incidentally within its purview.

The focus of interest is Great Britain, and it attempts to include all books, articles, memoranda and periodicals published in Great Britain from 1900-1956 together with a few 1957 publications and a number of theses for higher degrees; but a certain number of United States books and articles on general themes have been included.

The main body of the work is classified under the following main headings: a) General historical works on the subject; b) General works; c) Rural economy (with 8 sub-headings); d) Land economy (with 6); e) Estate economy (with 21); f) Research and education (with 2); g) Reference works (with 4); h) Foreign works (with 7). An alphabetical list of authors, giving the titles of their works, follows; and finally there is a subject index.

The book is very well printed and most handsomely bound; its clear and generous lay-out assist its simple and lucid arrangement in making it a pleasure to use. The compilers would, I suggest, have done better to abbreviate their periodical-titles in conformity with the World List of Scientific Periodicals, even though not all the perodicals they cite appear in that work; many users of their book will be familiar with World List abbreviations, which should be regarded as standard for this country. D. H. B.

# GENERAL AND PERSONAL INFORMATION

## **EXCHANGE: OFFERS & REQUESTS**

The Centre for Agricultural Documentation, Generaal Foulkesweg 1 A, Wageningen, Netherlands offers copies of the following four microcards (A-D) containing each a series of recently compiled bibliographical lists (numbers of references given in brackets). The Centre will be very pleased to receive in exchange for these micro-literature lists any non-published bibliographical material.

## A. MICRO-LITERATURE LISTS 1958 (22-39)

- 1958-22 Grape growing in the Netherlands (28)
- 1958-23 Sheep slaughtering (7)
- 1958-24 Nitrogen in feed (49)
- 1958-25 Land socialisation (15)
- 1959-26 Influence of potassium on the botanical composition of grassland (31)
- 1958-27 Reed (24)

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- 1958-28 Canary islands (17)
- 1958-29 Bulk handling of raw sugar (10)
- 1958-30 Diseases of pigs (144)
- 1958-31 Grain-damage by threshing (18)
- 1958-32 Agriculture in Belgium and the Netherlands; a comparison (25)
- 1958-33 Silkworm breeding (15) in Dutch
- 1958-34 The mole and its control (12)
- 1958-35 Influence of soil composition on flower colour (4)
- 1958-36 Agricultural Universities in Europe (36 institutions) 1958-37 Damage to crops by industrial gases (37) in Dutch
- 1958-38 Some Dutch publications on coffee growing (5)
- 1958-39 Agricultural labourers (30) Mostly Dutch.

# B. MICRO-LITERATURE LISTS 1958 (40-57)

- 1958-40 Pigfeeding and diseases of pigs (551)
- 1958-41 Earth current and dowsing-rod (31)
- 1958-42 Frost damage in potatoes (9) 1958-43 Agricultural credit in Denmark (7)
- 1958-44 Regional land improvement programs (15) in Dutch
- 1958-45 Poultry dressing stations (7)
- 1958-46 Quality of pork and beef (11)

1958-47 1958-48	Farm workers cottages (17) In Dutch Urea sprays (28)
1958-49	Lettuce growing in the Mediterranean region (23)
1958-50	Lettuce growing in the Mediterranean region (supplement) (11)
1958-51	Shetland pony breeding (11)
1958-52	Arabian horse breeding (8)
1958-53	Control of mushroom fly (19)
1958-54	Crossing of Phaseolus radiatus and Vigna Simensus (9)
1958-55	Peanut foliar diagnosis (11)
1958-56	Peanut crossing (17)
1958-57	Leafspot of peanut (55)
	C. MICRO-LITERATURE LISTS 1958 (58-62)
1958-58	Amine-acid in cabbage (6)
1958-59	Dry lot feeding and whey for pigs (32)
1958-60	Storage and drying (grain, onions, beans, seeds, gladiolus
	(285)
1958-61	Controlled climate in greenhouses (280) (general and toma-
	toes (280)
1958-62	Control of nematodes (28)
	D. MICRO-LITERATURE LISTS 1958 (63-75)
1958-63	Land lease act. Dutch (28)
1958-64	Evolution of agricultural research in the Netherlands (25)
1958-65	Farming licenses in the Netherlands. Suppl. (20) In Dutch
1958-66	Modern haying methods (33) In Dutch
1958-67	Use of milk replacers for dairy calves (41)
1958-68	Enrichment plantings in tropical rain-forest (21)
1958-69	Milkpowder (10) In Dutch
1958-70	Long term rural extension (9)
1958-71	Tractors (books) (21)
1958-72	Increasing the feeding value of straw (46)
1958-73	Influence of macro- and micro-elements on the storage of
	apple and pear (213)
1958-74	,, ()
1958-75	Dairy problem: production and consumption (16)

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# **INSTITUTIONS & INDIVIDUALS**

The American Phytopathological Society has for several years sponsored the publication of results from tests on new fungicides. The Results of 1957 Fungicide Tests have been printed privately and

may be obtained at \$1 per copy from Dr. A. B. Groves, Department of Plant Pathology and Physiology, Winchester Fruit Research Laboratory, Route 3, Winchester, Va.

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The new address of the CCTA/CSA Secretariat as from 1 January 1959 is as follows: Abbey House, CCTA/CSA, 2-8 Victoria Street, London, S.W.1.

The European Agricultural Aviation Centre (E.A.A.C.) is an independent international, non-profit organization, which aims at promoting the use of aircraft and helicopters in European agriculture and forestry. It was established about half a year ago under the auspices of the O.E.E.C., and so far the governments of 10 European countries have joined it as members.

Among the numerous activities of the E.A.A.C., the informative aspect holds a prominent place. Via its Quarterly Periodical persons interested both in and outside the member-countries - manufacturers of agricultural chemicals, manufacturers of aircraft, operators, government officials and research institutes - are kept informed of any developments in agricultural aviation. That is why this publication is from the very outset distributed on a world-wide basis.

The new Plant Breeding Research Laboratories at Njoro, Kenya were opened on 29 August, 1958 by the Hon. Michael Blundell, M. B. E., Minister for Agriculture, Animal Husbandry and Water Resources.

### FORTHCOMING CONGRESSES

- Forestry. Fifth World Forestry Congress, University of Washington, Seattle, summer 1960. Dr. I. T. Haig, Fifth World Forestry Congress Organizing Cttee, Department of State, Washington 25, D.C.
- Soil Science. 7th Internat. Congress of Soil Science, Madison, Wis., Summer 1960. Prof. Richard Bradfield, Dept of Agronomy. Cornell University, Ithaca, N.Y.

## **ABBREVIATIONS**

## Compiled by

FREDERICK A. BUTTRESS with the assistance of GORDON HUGHES

(School of Agriculture, Cambridge, England)

### Supplement No. 3.\*

AAC - Agrarische Adviescommissie (of NIBEM) (Netherlands)

AAF - Académie d'Agriculture de France

ACADI - Association des Cadres Dirigeants de l'Industrie pour le Progrès Sociale et Economique (France)

ACTA - Association de Coordination Technique Agricole (of FNSEA) (France)

ADEARTA - Association pour le Développement de l'Équipement des Ateliers de Réparation des Tracteurs Agricoles (France)

ADEXA - Association pour le Développement des Exportations Agricoles (France)

AEP - Agence Européene de Productivité (of OECE)

AFEE - Association Française pour l'Etude des Eaux

AFES - Association Française pour l'Etude du Sol

AFF - Association Française du Froid

AFIA - Association Française Interprofessionelle des Agrumes AFJA - Association Française des Journalistes Agricoles AFP - Agence France Presse

AFRAN - Association Française pour la Recherche de l'Alimentation Normale

AFZ - Association Française de Zootechnie

AGPH - Association Générale des Producteurs de Houblon (France)

AGPL - Association Générale des Producteurs de Lin (France)

APV - Association Générale des Producteurs de Viande (France)

Agra-Presse - Agency Générale de Renseignements Agricoles (France)

AIAF - Association de l'Industrie et de l'Agriculture Françaises

AIES - Association Internationale d'Essais de Semences (= ISTA)

AISS - Association Internationale de la Science du Sol (=ISSS) ALF - Association Laitière Fran-

ALF - Association Laitière Française pour de Développement de la Production et des Industries du Lait

AMA - Association Mondiale d'Aviculture Scientifique

<sup>\*</sup> Grateful acknowledgement is made to the Chambres d'Agriculture, Paris for many of the French abbreviations in this supplement which appeared in their issue No. 158 (Documentation-Agricole No. 18), 15 Oct. 1958.

AMR - Association de Médicine Rurale (France)

AMRCB - Annales du Musée Royal du Congo Belge

ANAO - Association Nationale des Appellations d'Origine Agricole (France)

Agricole (France)
ANFMA - Association Nationale
pour la Formation des Moniteurs Agricoles (France)

ANFPR - Association Nationale pour la Formation Professionnelle Rurale (France)

ANMF - Association Nationale de la Meunerie Française

ANPE - Association Nationale des Producteurs d'Endives (France) APA - Association Parlementaire

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APCA - Air Pollution Control

Authority (U.S.A.)

APCC - Assemblée des Présidents des Chambres de Commerce (France)

APCMF - Assemblée des Présidents des Chambres de Métiers de France

APECITA - Association pour l'Emploi des Cadres, Ingénieurs et Techniciens de l'Agriculture (France)

APPA - Association de Propagande pour les Produits Agricoles (France)

AREC - Amitié Rurale des Etudiants Catholiques (France) ARSC - Académie Royales des

Sciences Coloniales (Belgium)
ASBMT - Annales de la Société
Belge de Médecine Tropicale

ASRZB - Annales de la Société Royale Zoologiques de Belgique AVF - Academie Vétérinaire de France

BAC - Brouwtechnische Adviescommissie (Netherlands) BDF - Banque de France

BFCE - Banque Français du Commerce Extérieur BFR - Banque Fédérative Rurale (France)

BGD - Bureau voor Gemeenschappelijke Diensten (Netherlands)

BIS - Bureau Interafricain des Sols et de l'Economie Rurale (France)

BNA - Bureau de la Nutrition Animale (France)

BNIA - Bureau National Interprofessionnel de l'Armagnac (France)

BNIC - Bureau National Interprofessionnel du Cognac (France)

BRI - Banque des Règlements Internationaux

BUS - Bureau Universitaire de Statistique et de Documentations Scolaire et Professionnelle (France)

CA - Chambre d'Agriculture (France)

CACRMA - Caisse Autonome Centrale de Retraites Mutuelles Agricoles (France)

CAFA - Chambre Agricole Franco-Allemande

CAPEF - Coopérative Agricole des Producteurs d'Endives de France

CAPEM - Comité d'Aménagement et du Plan d'Equipement de la Moselle (France)

CAPER - Caisse d'Accession a la Propriété et à l'Exploitation Rurales (Algeria)

CBK - Centraal Brouwerij Kantoor (Netherlands)

CCAFMA - Caisse Centrale d'Allocations Familiales Mutuelles Agricoles (France)

CCAMAA - Caisse Centrale d'Assurances Mutuelles Agricoles contre des Accidents (France)

CCAMAG - Caisse Centrale d'Assurances Mutuelles Agricoles contre la Grêle (France) CCAMAI - Caisse Centrale d'Assurances Mutuelles Agricoles contre l'Incendie (France)

CCAMAMB - Caisse Centrale d'Assurances Mutuelles Agricoles contre la Mortalité du Bétail (France)

CCAVMA - Caisse Centrale d'Assurance Vieillesse Mutuelle Agricole (France)

CCL - Comité Central de la Laine

(France)

CCPMA - Caisse Centrale de Pré-

voyance Mutuelle Agricole CCSMA - Caisse Centrale de Secours Mutuels Agricoles (Fran-

ce)
CDCTM - Centro de Documentación Cientifica y Tecnica de

Mexico
CDHR - Comité Départemental
de l'Habitat Rural (France)

CDJA - Cercle Départemental des Jeunes Agriculteurs (France)

CDVPA - Comité Départemental de la Vulgarisation et du Progrès Agricole (France)

CE - Conseil de l'Europe CE - Conseil d'Etat (France)

CE - Conseil Economique (France) CEA - Centre d'Economique Al-

pine (France)

CÉBANOR - Comité Régional d'Expansion Economique de la Basse-Normandie (France)

CEBSO - Comité d'Expansion Economique Bordeaux Sud-Ouest (France)

CEC - Centre d'Etudes du Commerce (France)

CECL - Comité Européen de Contrôle Laitier (France)

CEDIA - Centre d'Etudes pour l'Extension des Débouchés Industriels de Agriculture (France)

CEDUS - Centre d'Etudes et de Documentation pour l'Utilisation du Sucre (France) CEE - Communauté Economique Européenne

CEEA - Communauté Européenne de l'Energie Atomique (Euratom)

CEF - Commission Européenne des Forêts (Italy)

CEF - Conservation des Eaux et Forêts (France)

CEGOS - Commission d'Etudes Générales de l'Organisation Scientifique (France)

CEIA - Coopérative d'Elevage et d'Insémination Artificielle

(France)

CEMA - Centre d'Etudes et de Modernisation Agricoles (France)

CERAC - Comité d'Expansion Régionale et d'Aménagement de la Champagne (France)

CERCA - Centre d'Enseignement Rural par Correspondance d'Angers (France)

CERER - Comité d'Etudes et de Recherches Economiques Rurales (France)

CERES - Comité d'Etudes Régionales Economiques et Sociales (France)

CERMA - Centre d'Etudes et de Recherches du Machinisme Agricole (France)

CERT - Comité de Roubaix-Tourcoing d'Etudes et d'Actions Economiques et Sociales (France)

CES - Conseil Economique et Social (France)

CESCO - Comité d'Expansion Economique du Centre-Ouest (France)

CETA - Centres d'Etudes Techniques Agricoles (France)

CETIOM - Centre Technique Interprofessionnel des Oléagineux Metropolitains (France)

CFA - Comptoir Français de l'A-

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ie Inineux CFA - Confédération Française de l'Aviculture

CFF - Crédit Foncier de France CFLF - Comptoir des Filasses de Lin Françaises

CFRAI - Comité Français des Relations Agricoles Internationales

CFRTI - Centre Français de Renseignements Techniques Industriels

CFS - Comptoir Français des Superphosphates

CFTC - Confédération Française des Travailleurs Chrétiens

CGA - Confédération Générale de l'Agriculture (France)

CGA - Conseil Général de l'Agriculture (France) CGAD - Confédération Générale

CGAD - Confédération Générale de l'Alimentation en Détail CGAF - Confédération Générale

de l'Artisanat Français CGAP - Comité Général d'Action

Paysanne (France)
CGC - Confédération Générale
des Cadres (France)

CGCA - Confédération Générale des Cooperatives Agricoles

(France)
CGIC - Comité Général Interprofessionnel Chanvrier (France)

CGP - Commissariat Général au Plan (France)

CGPCC - Confédération Générale des Planteurs de Chicorée a Café (France)

CGPFL - Confédération Générale des Producteurs de Fruits et Légumes (France)

CGPME - Confédération Générale des Petites et Moyennes Entreprises (France)

CGPPT - Confédération Générale des Producteurs de Pommes de Terre (France)

CGPT - Confédération Générale des Paysans Travailleurs (France)

CGSI - Confédération Générale

des Syndicats Independants (France)

CGT - Compagnie Générale rale Transatlantique (France)

CGT-FO - Confédération Générale du Travail Force Ouvrière (France)

CGV - Confédération Générale des Vignerons (France)

CGVCO - Confédération Générale des Vignerons du Centre-Ouest (France)

CGVM - Confédération Générale des Vignerons du Midi (France)

CGVSO - Confédération Générale des Vignerons du Sud-Ouest (France)

CIB - Conseil International du Blé

CIC - Commission Internationale du Châtaignier (of FAO)

CIC - Confédération Internationale de Défense du Cheval CIC - Conseil International de la

Chasse
CIJ - Cour Internationale de Justice

CIID - Commission Internationale des Irrigations et du Drainage CILB - Comité Interprofessional

CILB - Comité Interprofessional du Lait de Brebis (France)

CILC - Confédération Internationale du Lin et du Chanvre (France)

CIP - Commission Internationale de Phytopharmacie (France)

CIPC - Comité International Permanent de la Conserve (France) CISIR - Ceylon Institute of Scientific and Industrial Research

CITCE - International Committee of Electrochemical Thermodynamics and Kinetics

CIVAS - Comité Interprofessionnel des Vins d'Anjou-Saumur (France)

CIVB - Comité Interprofessionnel des Vins de Bergerac (France) CIVB - Comité Interprofessionnel des Vins de Bordeaux (France) CIVB - Comité Interprofessionnel

de la Volaille de Bresse (France) CIVC - Comité Interprofessionnel des Vins de Champagne (France)

CIVCR - Comité Interprofessionnel des Vins des Côtes-du-Rhone (France)

CIVDN - Comité Interprofessionnel des Vins Doux Naturels (France)

CIVPN - Comité Interprofessionnel des Vins du Pays Nantais (France)

CIVT - Comité Interprofessionel des Vins de Touraine (France) CJP - Centre des Jeunes Patrons (France)

CLF - Comité Linier de France CLIMMAR - Centre de Liaison International des Marchands de Machines Agricoles et Réparateurs (France)

CM - Chambre des Métiers (France)

CMÁ - Crédit Mutuel Agricole France)

CNA - Confédération Nationale de l'Artisanat (France)

CNAA - Comité National d'Action Agricole (France)

CNAM - Conservatoire National des Arts et Métiers (France) CNB - Confédération Nationale

de la Boulangerie et Boulangerie Pâtisserie (France) CNBF - Confédération Nationale

de la Boucherie Française CNC - Conseil National de Commerce (France)

CNCA - Centre National de la Coopération Agricole (France)

CNCATA - Centre National Coopératif Agricole de Traitements Antiparasitaires (France) CNCE - Centre National du

Commerce Exterieur (France) CNCF - Confédération Nationale de la Charcuterie de France CNCIA - Confédération Nationale des Commerces et Industries de l'Alimentation (France)

CNCV - Confédération Nationale des Coopératives Vinicoles (France)

CNEAF - Confédération Nationale des Experts Agricoles et Fonciers (France)

CNEEMA - Centre National d'Etudes et d'Experimentation de Machinisme Agricole (France)

CNÉRIA - Centre National d'Etudes et de Recherches des Industries Agricoles (France)

CNHR - Comité National de l'Habitat Rural (France)

CNIB - Confédération Nationale des Industries du Bois (France)

CNIH - Comité National Interprofessionnel du Houblon (France)

CNIPBC - Comité National Interprofessionnel des Produits de Basse-Cour (France)

CNIPT - Comité National Interprofessionnel de la Pomme de Terre (France)

CNIR - Centre National Interprofessionnel du Rhum (France)

CNJA - Cercle National des Jeunes Agriculteurs (France)

CNMCCA - Confédération Nationale de la Mutualité, du Credit et de la Cooperation Agricoles (France)

CNP - Corporation Nationale Paysanne (France)

CNP - Comité National des Prix (France)

CNPF - Conseil National du Patronat Français

CNPS - Confédération Nationale des Produits du Sol et Dérivés (France)

CNPV - Comité National de Propaganda en faveur du Vin iona- (France) stries CNRZ - (

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CNRZ - Centre National de Recherches Zootechniques (France)

CNÝS - Confédération Nationale des Industries et Commerce en en Gros des Vins et Spiritueux de France

COC - Commission Officielle de Controle (des semences et plants) (France)

CPA - Comité Permanent Agricole (France)

CPA - Centre de Préparation aux Affaires (France)

CPCEA - Caisse de Prévoyance des Cadres d'Exploitations Agricoles (France)

CRÉE - Comité Régional d'Expansion Economique de l'Auvergne (France)

CREDOC - Centre de Recherches et de Documentation sur la Consommation (France)

CREGR - Centre de Recherches et d'Expérimentation de Génie Rurale (France)

CRES - Centre de Recherches Economiques et Sociales (France)

CRIEL - Comité Interprofessionnel des Eaux-de-vie du Languedoc (France)

CSA - Conseil Supérieur de l'Agriculture (France)

CSMA - Caisse de Secours Mutuels Agricoles (France)

CTB - Centre Technique du Bois (France)

CTI - Confédération des Travailleurs Intellectuels (France)

CTIFL - Centre Technique Interprofessionnel des Fruits et Légumes (France)

CTIOM - Centre Technique Interprofessionnel des Oléagineux Métropolitains (France)

DGA - Direction Générale de l'Agriculture (France) DGEF - Direction Générale des Eaux et Forêts (France)

DGGR - Direction Générale du Genie et de l'Hydraulique Agricole (France)

DNGE - Direccion Nacional de Granos y Elevadores (Argentina)

EAAC - European Agricultural Aviation Centre

EAC - Etudes Agricoles par Correspondance (France)

EDF - Electricité de France. Direction Générale

ENEF - Ecole Nationale des Eaux et Forêts (France)

ENEMA - École Nationale d'Enseignement Ménager Agricole, à Rennes (France)

ENGR - Ecole Nationale du Génie Rural (France)

ENH - Ecole Nationale des Haras (France)

ENH - Ecole Nationale d'Horticulture (France)

ENIA - Ecole Nationale des Industries Agricoles (France)

ENSAN - Ecole Nationale Supérieure Agronomique de Nancy (France)

ENV - Ecoles Nationales Vétérinaires (France)

ERA - Ècole Régionale d'Agriculture (France)

EURATOM - Organisation Atomique Européenne

EXPAINSO - Société de Développement du Sud-Ouest (France) EXPANENTRE - Société pour l'Expansion Economique de la

Région du Centre (France)

FACA - Fédération Algérienne de la Cooperation Agricole

FACF - Fédération des Associations de Communes Forestières Françaises

FBA - Farm Building Association (U.K.)

(U.K.) FCCAM - Fédération Centrale du Crédit Agricole Mutuel (France)

FCMRF - Fédération des Centres Musicaux Ruraux de France

FDES - Fonds de Développement Economique et Social (France) FENNOBOARD - Finnish Wall-

board Industry Association FEPA - Fédération de l'Enseignement Privé Agricole (France)

FEROPA - Fédération Européenne des Syndicats de Panneaux de Fibres

FFNFPMAP - Fédération Familiale Nationale pour la Formation Professionnelle et Ménagère Agricole Privée (France)

FFSU - Fédération Française des Stations Uvales (France)

FGMOPA - Fonds de Garantie Mutuelle et d'Orientation de la Production Agricole (France)

FIAP - Fédération Internationale des Architectes Paysagistes (France)

FIDOM - Fonds d'Investissement et de Développement Economique des Départements d'Outre-Mer (France)

FIDOR - Fibre Building Board Development Organization Ltd (U.K.)

FNCAC - Fédération Nationale des Coopératives Agricoles de Céréales (France)

FNCAUMA - Fédération Nationale des Coopératives d'Achat et d'Utilisation de Matériel Agricole (France)

FNCB - Fédération Nationale des Commercants en Bestiaux de France

de France
FNCB - Fédération Nationale des
Coopératives Agricoles de
Transformation de la Betterave
Industrielle (France)

FNCC - Fédération Nationale des Coopératives Cidricoles (France)

FNCC - Fédération Nationale des

Coopératives de Consomation (France)

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FNCCRE - Fédération Nationale des Collectivités Concédantes de Régies Électriques (France) FNCETA - Fédération Nationale

FNCETA - Fédération Nationale des Centres d'Etudes Techniques Agricoles (France)

FNCFP - Fédération Nationale des Coopératives Agricoles de Fruits, primeurs, fleurs et autres produits Agricoles (France)

FNCG - Fédération Nationale des Centres de Gestion (France) FNCH - Fédération Nationale des

Coopératives d'Huilerie (France)

FNCHR - Fédération Nationale des Coopératives d'Habitat Rural (France)

FNCL - Fédération Nationale des Coopératives Lainières (France)

FNCPBV - Fédération Nationale des Coopératives de Producteurs de Bétail et de Viande (France)

FNCPVRT - Fédération Nationale des Coopératives de Production et de Vente des Raisins de Table (France)

FNCA - Fédération Nationale du Crédit Agricole (France)

 FNCSO - Fédération Nationale des Coopératives de Stockage d'Oléagineux (France)

FNDCV - Fédération Nationale des Distilleries Coopératives Vinicoles (France)

FNDPL - Fédération Nationale des Détaillants en Produits Laitiers (France)

FNETA - Fédération Nationale des Entrepreneurs de Travaux Agricoles de France

FNFR - Fédération Nationale des Foyers Ruraux (France)

FNG - Fédération Nationale du Genêt (France)

FNGAA - Fédération Nationale des Groupements Agricoles onale antes ance) onale chni-

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d'Approvisionnement (France) FNGDSB - Fédération Nationale des Groupements de Défense Sanitaire du Bétail (France)

FNGFS - Fédération Nationale des Graines Fourragères de Semence (France)

FNGPA - Fédération Nationale des Groupements de Productivité Agricole (France) FNGPC - Fédération Nationale

FNGPC - Fédération Nationale des Groupements de Protection des Cultures (France)

FNICG - Fédération Nationale de l'Industrie des Corps Gras (France)

FNIL - Fédération des Syndicats d'Industriels Laitiers (France)

FNMCCA - Fédération Nationale de la Mutualité du Crédit et de la Coopération Agricoles (France)

FNO - Fédération Nationale Ovine (France)

FNOMI - Fédération Nationale des Organismes de Migrations Intérieures (France)

FNP - Fédération Nationale de la Pisciculture (France)

FNP - Fédération Nationale Porcine (France)

FNPBRF - Fédération Nationale des Producteurs de Bois et Reboiseurs Français

FNPC - Fédération Nationale des Producteurs de Chanvre (France) FNPF - Fédération Nationale des

Producteurs de Fraises (France) FNPF - Fédération Nationale des Producteurs de Fruits (France)

FNPFC - Fédération Nationale des Producteurs de Fruits à Cidre (France)

FNPHP - Fédération Nationale des Producteurs de l'Horticulture et des Pépinières (France) FNPPTC - Fédération Nationale

FNPPTC - Fédération Nationale des Producteurs de Pommes de Terre de Consommation (France) FNPTI - Fédération Nationale des Producteurs de Pommes de Terre Industrielles (France)

FNPSM - Fédération Nationale des Producteurs de Semences de Maïs (France)

FNPT - Fédération Nationale des Planteurs de Tabac (France)

FNPT - Fédération Nationale des Producteurs de Topinambours (France)

FNSA - Fédération Nationale des Sinistrés Agricoles (France)

FNSACC - Fédération Nationale des Syndicats Agricoles des Cultivateurs de Champignons (France)

FNSDPL - Fédération Nationale des Syndicats de Détaillants en Produits Laitiers (France)

FNSFPA - Fédération Nationale des Syndicats de Fabricants de Pâtes Alimentaires (France)

FNSICAE - Fédération Nationale des Sociétés d'Intérêt Collectif Agricole d'Electricité (France)

FNSIA - Fédération Nationale des Syndicats des Industries de l'Alimentation (France)

FNSIAA - Fédération Nationale des Syndicats des Industries de l'Alimentation Animale (France)

FNSÍL - Fédération Nationale des Syndicats d'Industriels Laitiers (France)

FNSITCEAA - Fédération Nationale des Syndicats d'Ingenieurs, Techniciens, Cadres Administratifs et Employés des Organisations Agricoles de l'Agriculture (France)

FNSPFS - Fédération Nationale des Syndicats de Propriétaires Forestiers Sylviculteurs (France)

FNSPPTCQC - Fédération Nationale des Syndicats des Producteurs de Pommes de Terre de Consommation de Qualité Contrôlée (France)

FNSPV - Fédération Nationale des Syndicats de Pépiniéristes

Viticulteurs (France)

FNSUTL - Fédération Nationale des Syndicats Utilisateurs et Transformateurs de Lait (now FNSIL) (France)

FNTAF - Fédération Nationale des Travailleurs de l'Agriculture et des Forêts de France et

d'Outremer.

FNTCA - Fédération Nationale des Techniciens et Cadres de l'Agriculture (CGA) (France)

FSAC - Folia Scientifica Africae Centralis

FSLTT - Fédération des Syndicats Libres des Travailleurs de la Terre (CFTC) (France)

CDF- Gaz de France

GIPFA - Groupement Interprofessionnel des Plantes à Parfum et Aromatiques (France)

GIRPIA - Groupements Interprofessionnels de Répartition des Produits Indispensables à l'Agriculture (France)

GNA - Groupement National d'Achat (France)

GNIAA - Groupement National des Industries de l'Alimentation Animale (France)

GNIBC - Groupement National Interprofessionnel de la Betterave, de la Canne et des Industries productrices de Sucre et d'Alcool (France)

GNIL - Groupement National Interprofessionnel Linier (France) GNIPT - Groupement National

Interprofessionnel de la Pomme

de Terre (France)

GNIT - Groupement National Interprofessionnel du Topinambour (France)

GPA - Groupement de Productivité Agricole (France)

IAB - Institut Agricole de Beauvais (Oise) (France)

IDLIS - International Desert Locust Information Service

IFA - Institut for Atomenergi (Norway)

IFA - Institut Français de l'Alcool (France)

IFCC - Institut Français du Café, du Cacao et autres plantes stimulantes (France)

IHEA - Institut des Hautes Etudes Agraires (France)

IHEDR - Institut des Hautes Etudes de Droit Rural (France)

IICA - Instituto Interamericano de Ciencias Agricolas

ILSA - Inspection des Lois Sociales en Agriculture (France) INB - Institut National du Bois

(France) INCIDI - International Institute

of Differing Civilisations INGE - Instituto Nacional de Granos y Elevadores (Argenti-

INTA - Instituto Nacional de Technologia Agropecuaria (Ar-

gentina) INTERLAIT - Société Interprofessionnelle du Lait (France)

IRCA - Institut de Recherches sur le Caoutchouc en Afrique (France)

ISSS - International Society of Soil Science

ITPA - Institut Technique de Pratique Agricole (France)

ITV - Institut Technique du Vin (France)

IVCC - Institut des Vins de Consommation Courante (France) IWS - International Wool Secre-

IWSG Groupe International d'Etude sur la Laine

tariat

JACF - Jeunesse Agricole Cathologique Féminine (France)

JENER - Joint Establishment for Nuclear Energy Research (Netherlands-Norway)

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Secreational

Cathoent for (NeJICST - Japan Information Centre of Science and Technology JTUAC - Joint Trade Union Advisory Committee

KDS - Khuzistan Development Service

LADSIRLAC - Liverpool and District Scientific, Industrial and Research Advisory Council (U.K.)

LCFTA - London Cattle Food Trade Association

MAA - Maison de l'Agriculture Algérienne

MDAA - Muscular Dystrophy Associations of America, Inc. MDPA - Mines Domaniales de

Potasse d'Alsace (France)
ME - Mouvement Européen
MFAR - Maison Familiale d'Ap-

prentissage Rural (France)
MFR - Mouvement Familial Ru-

ral (France) MIDEC - Middle East Industrial Projects Corporation

MRL - Ministère de la Reconstruction et du Logement (France)

MSA - Mutualité Sociale Agricole (France)

NAAC - National Association of Agricultural Contractors (U.K.) NASA - National Aeronautics and Space Administration (U.S.A.)

NIOC - National Iranian Oil Company NOE - Laboratoire Coopératif National des Eleveurs (France)

NUCR - Nouvelle Union Corporative des Résineux (France) NUFFIC - Netherlands University Foundation for International Co-operation

OAD - Offices Agricoles Departementaux (sipprimés) (France) OCAA - Office Central des Associations Agricoles du Finistère et des Côtes-du-Nord (France)

OCIC - Office Chérifien Interprofessionel des Céréales (France)

OCRPI - Office Central de Répartition des Produits Industriels (France)

OMC - Organisation Mondiale du Commerce (UNO)

ONI - Office National d'Immigration (France)

ONG - Organisations Non Gouvernementales

OTAN - Organisation du Traité de l'Atlantique-Nord (NATO) OVAC - Oversea Visual Aids Centre (U.K.)

PANSDOC - Pakistan National Scientific Documentation Centre

PCSIR - Pakistan Council of-Scientific and Industrial Research

PIA - Pakistan International Airways

PME - Petites et Moyennes Entreprises (France)

PTT - Postes, Télégraphes, Téléphones (France)

RATP - Régie Autonome des Transports Parisiens (France) RCN - Reactor Centrum Neder-

RZBA - Revue de Zoologie et de Botanique Africaines

SAF - Société des Agriculteurs de France

SAMDA - Société Agricole Mutuelle d'Assurance (France)

SAMPA - Services d'Approvisionnement en Moyens de Production Agricole (France)

SAP - Société Agricole de Prévoyance (France)

SARL - Société à Responsabilité Limitée (France) SCAF - Société Centrale d'Aviculture de France

SCATS - Southern Counties Agricultural Trading Society (U.K.)

SCIDT - Scottish Country Industries Development Trust

SCIR - Syndicat Central d'Initiatives Rurales (France)

SCPA - Société Commerciale des Potasses d'Alsace (France)

SCRAL - Sociedad Cooperativa Rural Argentina Ltd.

SDA - Syndicat de la Distillerie Agricole (France)

SDN - Société des Nations (replaced by UNO)

SDR - Société de Développement Régional (France)

SEDA - Société d'Éditions Documentaires Agricoles (France)

SEIN - Société d'Encouragement pour l'Industrie Nationale (France)

SESD - Society of Experimental Station Directors (U.S.A.)

SFEA - Société Française d'Études Agricoles (France)

SFER - Société Française d'Economie Rurale (France)

SG - Société Générale (France) SGCTMA - Syndicat Général des

Constructeurs et Machines Agricoles (France) SHCF - Saint Hubert Club de

France SHR - Société Hippique Rurale

(France)
SIBEV - Société Interprofession-

nelle du Bétail et des Viandes (France) SICA - Société d'Intérêt Collectif

Agricole (France)

SICA - Société d'Intérêt Collectif

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siCAE - Société d'Intérêt Collectif Agricole d'Electricité (France)

SICÁHR - Société d'Intérêt Collectif d'Habitat Rural (France)

SICOD - Service Interconsulaire du Commerce et de la Distribution (France) SIL - Secrétariat International de la Laine (IWS)

SILIN - Société Interprofessionnelle des Graines et Huiles de Lin (France)

SIMA - Salon International de la Machine Agricole

SIOFA - Société Interprofessionnelle des Oléagineux Fluides Alimentaires (France)

SIRT Société Interprofessionnelle du Raison de Table (France)

SISS - Société Internationale de la Science du Sol

SITMA - Société des Ingénieurs et Techniciens du Machinisme Agricole (France)

Agricole (France)
SITOFA - Société des Industries
de Transformation des Oléagineux Fluides Alimentaires
(France)

SJPA - Syndicat des Journalistes de la Presse Agricole (France)

SNA - Société Nationale d'Acclimatation (France)

SNC - Syndicat National des Cidriers et Fabricants d'Eau-de-Vie de Cidre (France)

SNCEA - Syndicat National des Cadres d'Exploitations Agricoles (CGA) (France) SNCEOA - Syndicat National des

SNCEOA - Syndicat National des Cadres et Employés des Organisations Agricoles (CGA) (France)

SNEA - Société Nationale d'Encouragement à l'Agriculture (France)

SNFEV - Syndicat Français des Eleveurs de Visons (France)

SNFM - Section Nationale des Fermiers et des Métayers (France)

SNFS - Syndicat National des Fabricants de Sucre (France)

SNHF - Société Nationale d'Horticulture de France

SNIP - Syndicat National Interprofessionnel de Porc (France) ession-

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Interrance) SNIPOT - Société Nationale Interprofessionnelle de la Pomme de Terre (France)

SNMRMA - Syndicat National des Marchands Réparateurs de Machines Agricoles (France)

SNPA - Syndicat National de la Presse Agricole et du Monde Rurale (France)

SNPEP - Syndicat National Professionnel des Engrais Phosphatés (France)

SNPPM - Syndicat National des Producteurs de Plantes Médicinales (France)

SNST - Société Nationale pour la Vente des Scories Thomas (France)

SOBIPO - Société Bretonne Interprofessionnelle de la Pomme de Terre (France)

SODEL - Société pour Développement des Applications de l'Electricité (France)

SOF - Syndicat des Osiéristes Français

SONITO - Société Nationale d'Intervention sur le Marché de la Tomate (France)

SPAI - Service Professionnel Agricole International (APPCA)

PINdustrie des Engrais Azotés (France)

STIL - Service Technique Interprofessionnel du Lait (France) SYFAC - Syndicat des Fabricants d'Aliments Composés pour l'Alimentation Animale (Fran-

SYNACOMEX - Syndicat National du Commerce Extérieur des Céréales (France)

SYNCOPAC - Syndicat National des Coopératives Préparant des Aliments Composés (France)

SYNCOPEX -Syndicat National des Coopératives Agricoles Exportatrices (France) SYNERVA - Syndicat National d'Etudes de Revision et de Vulgarisation des Coopératives Agricoles (France)

TOFINSO - Société Toulousaine Financière et Industrielle du Sud-Ouest (France)

TPG - Trésorier Payeur General (France)

UCSAF - Union Centrale des Syndicats Agricoles de France

UECB - Union Européenne des Commerces du Bétail

UECR - Union des Ententes et Communautés Rurales (France) UEMOA - Union des Exposants de Machines et d'Ouvillage

de Machines et d'Outillage Agricoles (France)

UEO - Union de l'Europe Occidentale

UFCAC - Union Fédérale des Cooperatives Agricoles de Céréales (France)

UFC - Union Fédérale de la Consommation (France)

UFEA - Union Française pour l'Equipement Agricole

UFI - Union des Foires Internationales (France)

UFSS - Union Française des Syndicats Sericicoles (France)

UGCAA - Union Générale des Coopératives Agricoles d'Approvisionnement (France)

UGCAC - Union Générale des Coopératives Agricoles de Céréales (France)

UGSBF - Union Générale des Syndicats de la Brasserie Française

UIAF - Union Interprofessionnelle de l'Angora Français

UIOF - Union Internationale des Organismes Familiaux

UIP - Union Internationale Pay-

UIIRF - Union Internationale des Instituts de Recherches Forestières (IUFRO) UNAF - Union Nationale de l'Apiculture Française

UNAF - Union Nationale des Associations Familiales (France)

UNAFR - Union Nationale des Aides Familiales Rurales (France)

UNCAA - Union Nationale des Coopératives Agricoles d'Approvisionnement (France)

provisionnement (France)
UNCAFL - Union Nationale des
Coopératives Agricoles de
Fruits et Légumes (France)

UNCAMB - Union Nationale des Coopératives Agricoles de Meunerie et de Meunerie-Boulangerie (France)

UNCDC - Union Nationale des Caves et Distilleries Coopératives (France)

UNCEIA - Union Nationale des Coopératives d'Elevage et d'Insemination Artificielle (France)

UNCL - Union Nationale des Coopératives Laitières (France)

UNCVDC - Union Nationale des Coopératives Viticoles et Distilleries Coopératives (France)

UNEAP - Union Nationale de l'Enseignement Agricole Privé (France)

UNEESA - Union Nationale des Etudiants de l'Enseignement Supérieur Agricole (France) UNEP - Union Nationale des Eleveurs de Porcs (France)

UNIA - Union Nationale des Industries Agricoles (France) UNIA - Union Nationale des In-

génieurs Agricoles (France)
UNIBEV - Union Nationale In-

UNIBEV - Union Nationale Interprofessionnelle du Bétail et des Viandes (France)

UNICETA - Union Nationale des Ingénieurs des Centres d'Etudes Techniques Agricoles (France)

UNICID - Union Nationale Interprofessionnelle Cidricole (France)

UNIFL - Union Nationale Interprofessionnelle des Fruits et Légumes (France)

UNMFAR - Union Nationale des Maisons Familiales d'Apprentissage Rural (France)

UNOAI - Union Nationale des Ouvriers Agricoles Indépendants (France)

UNOCCER - Union Nationale des Offices de Comptabilité et des Centres d'Economie Rurale (France)

UNSE - Union Nationale des Syndicats de l'Etang

UOF - Union Ovine de France URSSAF - Union pour le Recouvrement des Cotisations de la Sécurité Sociale et les Allocations Familiales (France)

## A NOTE ON THIS QUARTERLY BULLETIN

The editorial office is at the Library, Rothamsted Experimental Station, Harpenden, Herts., England.

Communications regarding it should be sent to Mr. D. H. Boalch

at that address.

News in the field of the bibliography and documentation of agriculture and allied subjects is welcomed. Short articles (about 1500 words) and letters to the Editor will be published in the Quarterly Bulletin from time to time; these should be in English, French, German, or Spanish. Articles, in whatever language they are written, should have an English summary.

Note: This Quarterly Bulletin is obtainable through membership of the International Association of Agricultural Librarians and Documentalists. The annual subscription of 50 Swiss francs (£4.2.6.d; \$12.50) for Institutes or Libraries, or 10 Swiss francs (£0.16.6d; \$2.50) for individuals, should be sent to the Treasurer, Th. P. Loosjes, Twentsche Bank, Wageningen, Netherlands.

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